6270/6881
FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGPGIQGDAHFDDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFKDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDSVFEEPLSKKLFFFSGRQVWVYTGASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCCGCTGACTCAGGAGCTCCGGTGCTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGCTTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCCTCTTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCGT
GTGGTGCTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACTGGAGCTTCCTGTATGTCACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCCTCTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCCTGGTGGTCCTCCTCATCGCCGGGGGT
CTCTTCATGTTCACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCTTGGTGCTGGGGGCCTCGTTCATC
GGTGGCATTCGCTGGACCCTCACCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTCCTCCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAACTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCCTCCCTTCAGAGCCTGGTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACCACTTCCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTCACGGTCCACTGGCCGCCTTGTGTTGCTGGAGACGTGG
GGGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCTTTCCCTGCCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTTAGAACACCAGTCCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTACTGAGTACTGCA

6272/6881
FIGURE 5794

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GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGCGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGCGTAGCCCAGCGTCGCGCCTCGGCGCCCCCACGCGCCCACGCAGCGGCGCGG
GGACCCGGGCGGGGGCAGAGGGAGGGCCCGGCCCAGGGAGGAGAAGGGGCCGGTCCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCCAGGAGGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCGCCGCAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCGCCCGCCCGCCCGCACCGCGTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTCACCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCCTGAGAGTGTCCCAGCTCTTCT
CCAGATCTTGCCCACGTGTCCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCCTATACAGCTTACCCACCTCCAGCACAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCCCTGGCCAGAGTGGATTCCTCAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATACACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATCCTTCCTACCCCGGCTTCCCCCAGAGCCAGTACCCCC
AGTATTACGGCTCATCCTACAACCCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCCTCTCCACGTCCA
CCTACGTCCTCCAGGAGGCATCTCACAACGTCCCCAACCAGAGTTCCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGCACCGGGCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGACAATGAGATTGAGCGTGTGTTCGTGTGGGACTTGG
ATGAGACAATAATTATTTTTCACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGCAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACTTCT
CCGCTGACGGCTTCCACAGTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGGCGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCACTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCCAACTGTGTCAATGTGCTGGTCACCACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCCTGGGGTCTGTGTTTCCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAACATGCCTTTCTGGCGGATATCCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCCTCGCCTTCCCCACCTCCCCACCGAGAACTCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGACGTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGATGAGGAGGGGATGGGTTTGTCTTGTCT
TCTTTTTAATTTATGGACTAGTCTCATTACTCCGGAATTATGCTCTTGTACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTTTTGAACTGGTATGTGGGGTGGTTCACAGTTCTAATGTAAGCACTCTATTCTCCAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTTGTTTTTAAAGACCTACTTGACGTCATGTGGACAGTGCACGTGCCTTACGCTACATCTTGTTTTCTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTTG
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6273/6881
FIGURE 5795A

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CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCCGGGCCCCTGGCGCCGCGGCGCCCAGCTCCGGCCCCGGCCCGTGCGCGGCCGCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCTCTGCGTCCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGCAGTCGGCATTCCTGCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCCTGTTCTCGAACATCGAAGACATCCTGGAAGTTCATAAGGATTTCTTGGCCGCCTTGG
AGTATTGTTTACACCCGGAGCCGCAGTCTCAGCATGAACTTGGGAATGTTTTCTTAAAATTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGCAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCCTTTTGAGCTGCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCGCGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGCTCCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGCTCCTCCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTCACCGGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGGTCGAATCAACACTGAAGTCATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTCACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTCATGATTGCGGAGAAGGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAAGCTGAGCACTGTCCCCAAGTGCTTTC
TTGGCAATGAGTTCGTTGCCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTCACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCGTGGGTCTGTGCAACAATGGCTTCATGCACCACGTGCTGGAGAAGAGCGAGTTCAGGGATGAGTCCCAGTACT
TCCGCTTTCATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCAAGCGCCTGCTGATCCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTTCCTGCGGCCGTTTTCAGAGGTGGAGTCCATCCTCAACCAGTCCTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATCAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCGTGGAGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCAGTGCATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGGTGCCCCTGAGGTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCACACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAGGAGGCCTCCACTGAGGACCCCAGTGGCGAGCAGGCCCAGGAGGAAG
ACCAGGCTGATTCAGCCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAACTGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGCTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCCCACCCTTCAAACAAGCCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCCTACCCCAAGACCACCCCCTCAGTGGGCAGGTCCTTCA
GCATCCGCTTTGGACGCAAACCCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTCGTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGCTTGCCTGCTGCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCTTGGTCAGGAAGACCGGGGCCTCAGCTTCCTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTCACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTCACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCCACCTCGGGTGGGTCCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCTGGTCAGTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAACAGCAATCGAGACTCGGTCCTGTCCTACACCAGCGTGAGAAGTAACAGCTCCTACT
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6274/6881
FIGURE 5795B

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TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTCGAAGAGACCAAGCATTTCCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTCAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCCTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGCTGGAGGACATCTGGGTGACGCTGTCAGAGCTGGACAATGTCACCTTCTCCTTTAAGCAGCTGGACG
AGAACTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTCATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGCTGGAGAACGTGGAGGGGCTGCCTTCTCCAGGCAGCCAGGCCGCGGAGGATTTGCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTCAGCAGTATTACCGCAAACTCAGGGCATTTTACCTGGAGCGGTCTAACC
TGCCCACGGATGCCAGCACCACGGCGGTAAAGATAGACCAGCTGATCCGCCCCATCAATGCCCTGGATGAGCTCT
GCCGCCTCATGAAGTCCTTTGTCCACCCAAAGCCTGGTGCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCCTGGGGGCCTGCCAGATGGTCATGTGTGGCACAGGCATGCAGAGGAGCACCCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTTGCTGCCCAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCCTCTGCCAGCCGCCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGGCCTCTGGAGCTGGGATTTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCCGGCCCATTCTTCACACGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCCTGCGTCCCCAGAACCCAAGGGAACGTCATGGAGGCCACATGG
GGCCACCCGGCTCCCTCGGGATGGCTCCGCCTGCACTTTTGAAACCCCGGTTTCCTTCAACGTCCACATTCCAGG
TGACCACACGTGTCTCCTCCTCCTCATCTTAGCTTCCAGGTTCACCCTAACCCTGTACTAACCTGCTTGGTGGAC
TTGGAAAAGACTTGGCTCTGTCGGGAAAGGAGAGACGGGGCCTCCATCACGCCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCCTGGAACTGGGGCCACCAGCCCTGGGCACGAGATTTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTTGTTGGTGTTGTCAAAGTTTGTTTTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACTGTTCCTGCTTCTACTAAAAAAAAAAGAGCACAAAAGAAAAACTAAATTATTGAAAAATTAAA
AAATGTCATTGTTTCCTGTTTGTTAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCCTTCC
CCCACCCTCCATTCTCCAGCGGTTGGCCGGTGTTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTCACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTTCTTGATGGTAACTTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTCACAGCTGGGGAGGAAGCGGGGGGACGCCTGTCACCCCTGG
CAGGTGGTGAGTTCAGGTGGGGGCTCCCTGCTGCCCCCAGGCCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCGCTTCCCTCTCTTGCCGCAGCATACACGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCCGCTTTAGCCCTGCTGCGGGAAATGGGGGAGGGCCCAGGGCCAG
CGCATTGTGCACTGGTTTACTTTAAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC
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FIGURE 5796A

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GCATTCCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTCGCGCCATTT
TGCCGGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACTCAGCGATGCAAATCTGCAAACACTAACAGAA
TATTTAAAGAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACTATATTAAAAGGAACTGGAGAATTGTTGAAGATGAACCAAACAAAATTTGTGAAGCCGAT
CGAGTGGCCCATTAAAGCCAACATAGTGCACTTGATGCTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCCTCCGTACAGCACATTCATTATTTAAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAAATTGTTCTATAGTTTAAACTTTCAGGATCTCCCTGAATTTTTTGAAGATAATATGGAAACTTGG
ATGAATAATTTTCATACTCTCTTAACATTGGATAATAAGCTTTTACAAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTG
GTAAGTAATGCAATTCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTTGAA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGGACCTGTGACAGGAATCTTCTCTGGTTATGTTAATTCCATGCTG
CAGGAATACGCAAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCAAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAAACCTAACTGAGTTCTTTGTGAAT
CACATCCTCCCTGATTTAAAATCAGCTAATGTGAATGAATTTCCTGTCCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTTAGTCTCGATTCCTCTCTTGATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTCATACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCCTAACAATGCC
ACTCTCTTTACAGCTGCAGAAATCGCACCGTTTGTTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTTCTCTCCTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTTGGTGTTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATTCCATACGTC
TTTCAAGTGATGTCTTTGCTTCTGGAAACACACAAAAATGACATCCCGTCTTCCTATATGGCCTTATTTCCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGTCTTTCAGAAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAATCAGTT
GACCAATATAGGAAACAAATCTTCATTCTGCTATTCCAGAGACTTCAGAATTCCAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGGAATGGTTTTGGAAAAAATTATTATTCCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATTCCTGATGAGGAA
CATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTTGCTGGGAAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTCACAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTCCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAAACAAAGGAAGTTCTCCTTTTGAACTTGTCACGAATTCCATCTTGTAAA
GGATATTAAATGTTGCTTTAACCTGAACCTTGAGCAAATTAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGCAACTTCAAGGGACAAGTATTAATAGTTCAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTGACGGACACTGTGGAGACTTTCTGTTACTAAATCCTTTTGTTTTGAAGCTGTT
GCTATTTGTATTTCTCTTGTCCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTTCATAGTTTCAAATCTGTAATCAGCAATAAAAATCCTAA
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6276/6881
FIGURE 5796B

AATATGTACCT

6277/6881
FIGURE 5797

MELSDANLQTLTEYLKKTLDPDPAIRRPAEKFLESVEGNQNYPLLLLTLLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHLMLSSPEQIQKQLSDAISIIGREDFPQKWPDLLTEMVNRFQSGDFHVINGVL
RTAHSLFKRYRHEFKSNELWTEIKLVLDAFALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITQ
ANELVNLTEFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAAHA
LERLFTMRGPNNATLFTAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLLQEAIIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEEALFLVFTEILQNDVQEFIPYVFQVMSLLLETHK
NDIPSSYMALFPHLLQPVLWERTGNIPALVRLLQAFLERGSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPESVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IIPEIQKVSGNVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGQMVNNPKIHLAQSLHKLSTACPGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGC**ATG**GTACTTGCGCAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCGGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCCATTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGAAGAACCGCAGTGCTGATTTCAACCCTGATTTCGTTTTCACTGAGAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTCATGAGCCAACTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAGAAAAGGAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAAACTGCCGCCTTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCACCCGCGTGCTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTCACCAGACAGCTGGCCCAGTTCTGCAACATCACCACCTGCCTG
GCTGTGGGCGGCTTGGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACTGCCCTTCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCCACCACCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTCACGCAAACC
AAGAAGCAGGCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAAACGGTAATCAACTTCACAATGCCTAATACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCACGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCCTGTGAAGGCCAGGATACTTCCCCAAGATGTCATCCTC
AAATTCCGGGACAAGATTGAGAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCCTGCCAAGAAGCAAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTCACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAG**TAG**

CTGTCGTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAAAAAACAAAAACAAAAACAACACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAAATGGAAGTATTTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAA

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FIGURE 5799

MVLAQRRRGGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPVEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVKDRKKKKKKGQEAGGFFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNPVRIFVNSNTDVAPFLRQEFIRIRPNREGDR
EAIVAALLTRTFTDHVMLFTQTKKQAHRMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFTMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKDVYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKEERKKEKIAKALQEFDLAL
RGKKKRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEEPVRGPAKKQKQGKKSVFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAA**ATG**ATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTTATCCCTAACACAGCTAGTTCCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAAACTAGTCCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTTGGGATTG
GTGGGAGAAATGTTTACAGAATGGG**TAA**TTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCCTTGGCCAATTCACTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTTGTGAGGTTCAGTTATAAGATTCATCATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTTAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCAAATAACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCCTTAATCAATGGAAGGGGAATAAGCAAACTGAGTTTTCTTACACC
TTTTGAGTATAGTGTTTTTGCCATCATAGATGTGGCTCCTCATAATTCTCCAACTTTTATATTAAAAAACCAAAA
CCTCAAAAATTGTAGTTCATGTCAGTCAGTGATGACTCATCTTAGAAGTATTTTGTTTTTGGATGTGTGAATGTG
CATAGTTCTTAAAGTCCAACATTCATGTAATAAGACATCTTGCATATAACAATGACCCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATAACTTTATTCAAGTATCCTTATTTGCCCCTAAAATGTCTTTAATACACATTACT
TGGGTTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTCACAGGCATGATTGCTTGAAACTCATGGCTTCAAGGGAAACTCCCACCCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCCACTGCTCAGCTTCTCATCCTTTAAAAGATTTTTACTGGTAGT
GTCCTCATTCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTTAGATGAAGGTTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAAGAAAAGGACAGACCCTGTGCTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAAGGCTGTGCCCACTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLLQNGAACTPGHSESTPNKGGEVVFIPNTASSCFCVLSPLARVQSKLVLIGYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCCAGTGCCTCGACCACT**ATG**CC
GCGCTCTTTCCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCCTCACCGGCTCCTTCGTCCTTCTCCTCTACTTCAGTCTCTTCCTTGGAGGCCGAGGCCTATGC
TGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCTTCGCTGACCGCTCCAACCTGCGGGCCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGC**TGA**CCCTCGAGGCTCCCTCTTCCTCTCCATACCTGCCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTTCTGGTTCTGTGTCCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCCTGA
GCTGGCCTGTCTGCGTGGGTTTTTGTATCCAGAGCTGTTTGGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCCACCCCACTCAGGGGACCCCACTCCCCTCACACACACCCCCCCACAAGGAACCC
TCAGGCCACCCTCCACGAGGTGTGACTAACTATGCAATAATCCACCCCCAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCCAGGCAGCTATTTCAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTCGGGGCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCCAGAACTATTCTGGGGGCCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTTAAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTAAAAAAAAAAAAAAAAAA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDEDSGKGSQPPSPPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFADRSNLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKHQESGCSGCPR

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FIGURE 5804

TTCACACGGCACGACTTCATCGAGACCAACGGGGACAACTGCCTGGTGACACTGCTGCCGCTGCTAAAC**ATG**GCC
TACAAGTTCCGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTCACCCTC
CTGCAGGACTGGCATGTCATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCCACGAGACCTACTTC
TGCATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAAT**TAA**TCAAAAAGAAAAACC
ACAGGCCCTTCCCCTTCCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCTC
CCGCCTCCCACCCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTTCGCCTGCACCCCTGGTTCCTTTAAGTCTTAAGTGAT
GCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCACTCCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTGCACCGTCACCACCCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCCTCTGCTGTCATCAGCTGA
TGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTGGTCATCCTTGC
AATCCATTGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTCAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAATTTAGTATTTGTGTAAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTTAATATAATAAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCLIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPRNFRLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRAISVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5806

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ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACTGAGTGATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCTTCCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCCACCCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGCTTC
AGGTCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTTCGCCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTGCACCGTCACCACCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCCTCTGCTGTCATCAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAACCCGGTGCATGCCTTG
GTTTTGGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAATTTAGTATTTGT
GTAAAACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFVTKINMNGVNSSNGVVDPRAISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCCTGCCTTTAAATCCATGGAA
GTGGCCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCCGCGGCGCCCCCC
GCGGCCAGACCCGGGCCGCGCCCCCCGCCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGCAGGCCCCGGCGCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCGCGCCCGCCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCTGCACCCACCGCCCCGCCGCCGCCGCCGCCCGCCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCCTCCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCCCGACCGCCTGCTACGCG
GGGGCCGGGCCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCCTGGAGCTCACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTCGCGCGAGCTCAGC
ACCCTGCGGAACTTGTTCAAGCAGCTGCCCGAGCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

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GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCGG
GGATTGCAGCGGGCCTCGGGGCTAAGAGCGCGACGCGGCCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGGCCCGTCATGGAGATGGAAAAGGAGTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCAGTCCCTTTGACCATAGTCGGATTAAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAATGGAAGAAGCCCAAAGGAGTTACATTCTTACCCAGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTCGTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAAATGCGCACAATACTGGCCACAAAAAGAAGAAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCGACAGCTAGAATTGGAAAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCTTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCACGGGCCCGTTGTGGTGCACTGCAGTGCA
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAG
GAGCTTTCCCACGAGGACCTGGAGCCCCCACCCGAGCATATCCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCCTTAAATGCCGCACCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCGTGGGGGGAAGTCTTCGAGGTGCCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCCTGGTCAACATGTGCGTGGCTACG
GTCCTCACGGCCGGCGCTTACCTCTGCTACAGGTTCCTGTTCAACAGCAACACATAGCCTGACCCTCCTCCACTC
CACCTCCACCCACTGTCCGCCTCTGCCCGCAGAGCCCACGCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCGTAGAGAGCCGGGCCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTGCCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGAGGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGGCCTACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCCAGGCGGGCGGCACGCCAACAGCCCCCCCCTTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCACTAGCATTTTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTCAGCCTTGCATCAAGGGCTTTATCAAAAAGTACAATAATAAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCCTGCTGCGTCAGACCAGTACTGGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGTATTAGAATGCATGTAAGGTCTTCTTGTGTCCTGATGAAAAATATGTGCTTGAAATGAGAAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTCGCTCAGCAATAGGGTGCAGTTTTCCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCCTGGTGAGGCCCAGCCTGTCCTGGTACAGCAGGGTCTTGCTGTAACTCAG
ACATTCCAAGGGTATGGGAAGCCATATTCACACCTCACGCTCTGGACATGATTTAGGGAAGCAGGGACACCCCCC
GCCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAAACCACACTTCTTGAAACAGCCTGGGTGACGGTCCTTTAGGCAGCCTGCCGCCGTCTCTGTC
CCGGTTCACCTTGCCGAGAGAGGCGCGTCTGCCCCACCCTCAAACCCTGTGGGGCCTGATGGTGCTCACGACTCT
TCCTGCAAAGGGAACTGAAGACCTCCACATTAAGTGGCTTTTTAACATGAAAAACACGGCAGCTGTAGCTCCCGA
GCTACTCTCTTGCCAGCATTTTCACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATTCTGTGGTGGG
AACATTCGAGGTGTCACCCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGTAAGCATTCTG
AGCTGGGCTTGTTGTTTTTAAGTCCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTTAACCTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGAA
TAAACCATTTTTACAAAA
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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRYRDVSPFDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSLKCAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYYTVRQLELENLTTQETREILHFHYTTWPDFGVPESPASFLNFLFKVRESGSLSPEHGPVVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLLEMRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPPPRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPLNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGEPSLPEKDEDHALSYWKPFLVNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

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ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTTGTGGATCGTGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTTGCTACTACATAAAAGAAAGATACTCATTTATAGTTACGTTCATTTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTGCATAAAGT
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FIGURE 5812

MASLEVSRSPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIISRGANFLTQILLRPGASDLTGSFRLYRKEVLEKLIEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCTTGGGTCGCAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTCGGAGTGGCGGAGCGTCAAGTCCCCTGTCGGTTCCTCCGTCCCTGA
GTGTCCTTGGCGCTGCCTTGTGCCCGCCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCGTAATCCCAGCATTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAACTGCATTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACT
CAGCAATTTCCTTGTCAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCCTTCAAATTCT
TCCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAACTGGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTCTGGCTCTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGGAACAGTTTATAGAGAACTTCAGAAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTCATTCGAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTTAGTTGGGAAGCCTCCT
TTTGAGGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCCTGACTTTGTAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTCAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTCATAATCTGGAGGCAAGGTTCGACTGCAGCCGCCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTGTAACTTATTGGGTTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTTAAGTATGAAAATAAAGATATATGTACAGACTTGTATTTTTTCTCTGGTGGCATTCCTT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCCTCCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTAAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

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AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCTCGGAGCAGCTCCTGCATCTCATCAAACTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTCGTTCAGATACTGTTGCCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCCAGAGGCTTCTGAGTACGAAACATGCTATGTCACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAACAAAATATGGAAAACCACCCAGT
GATTCGAACTCTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTATACTTGTCGGAACTCAGCATCCTAC
TCTTCGCCTTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACTGGAAGCAAGGACGGCTGCATCAAATTATGGGA
TGGTGTTTCAAATCGATGCATCACAACTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTTCTGCCATTTTTTC
CAAAAATTCTAAATACATTCTCTCAAGTGGAAAAGACTCTGTAGCTAAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAACCACACCGA
GGACTATGTGTTGCTGCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCGTTGGGGCACAACAATATTGTACGCTGCATAGTGCACTCCCCCACCAACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCTCCTCCCCCACGTCCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGGATTTGTATAAAAGAATCTTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPEASEYETCYVTSHKGPCRVATYSRDGQLIATGSADASIKILDTERMLAKSAMPIEV
MMNETAQQNMENHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLFDYSKPSAKRAFKYIQEAEMLRSISF
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGCIKLWDGVSNRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVRYTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTTD

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FIGURE 5816

GGATTTCGCCGGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCG**ATG**GGT
TGCGACGGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAACTATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAAAGCATTAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCGTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAAACCAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAAGCACAGCAATGAATGAGAGC
TCTTCTGGAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCACTGGGTCACCCACACG
TCCTACTGCTTC**TGA**AGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCG
CTTTGTGCCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTCGGTTCCAGGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCATGCTTGCTTCCACCTGCAGGTGCATTTGGTCCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTA
TGCTTGCAGTAACAAGAGACTCCAGAGTCCTCACCGGTGCAGAGTTGGCACATATTAATTAACTAAAATTCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAAACTGGGCTTTAAAAAGGATGGATTTCAAATACACTG
TGCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTCGAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRARFICPVVGLEMNGRHRFCFLRCCGCVFSERALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRAKLEKKTKKPKAAESVSKPDVSEEAPGPSKVKT
GKPEEASLDSREKKTNLAPKSTAMNESSSGKAGKPPCGATKRSIADSEESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAGGCTGGGAGAGCGCCCCGGGGCCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCG
CCCGCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCCGGGCGAGTGCGG
GGCGAGGGGCCCGGGGCCAGCACCGAGCAGGGGGCGGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCCGTCTGCAGCAAGTGACCGAGCGGCGCGGACGGCCGCCTGCCCCCTCTGCC
ACCTGGGGCGGTGCGGGCCCGGAGCCCGGAGCCCGGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGCGCCGCACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGCGGGCCCGGCGGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCCTCACCGACGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGGAAGCTGTCACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCCTGCTCGACAGCCGTACCCTCTGGGCCTCGGAGGAGGGCTGGCTGGTGTTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCGCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCACGAGCTGTATGTCAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAACTCCTACATGAACGCCACCAACCACGCCATCGTGCAGACG
CTGGTCCACTTCATCAACCCGGAAACGGTGCCCAAGCCCTGCTGTGCGCCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTCATCCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTCAGACCCTTTGGGGCCAAGTTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGATCAGTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCCAGAGGTAATTATGAGCGCCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAATTGACCCGGAAGTTCCTGTAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATAACTAAAC**ATG**GGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATA
TGCATTTTTTGTGCAAACTTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGGAGACAAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTCTTGTCTTAAAGCATTTAACGCCCCTGTACACAACTCACTCCTTTTAAAGAAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAAACTGTACAGTGTCGTTTTTGTATGGTTAATACACTACCAAA
TGTGTCTTTAGATGGCCCTGTCCTGGTGGTATTTTCAATAGTCACTAACCTTGCCTGGTAGAGTATGGGGGGTTGT
AAATTGGCATGGAAATTTAAAGCAGGTTCTTGTTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

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FIGURE 5820

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMKTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPGEKKAAKLKEKYEKDIAAYQAKGKPEAAKKG
VVKAEKSKKKKEEEEDEEDEEDEEEEDEEDEEDDDDE

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FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCACTGGGAACACAAACTTGCTGGCGGGAAGAGCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTCGTGCCCCTTAGCA
GCACTCTGCAGAA**ATG**CCTCCTCAGCTGCAAAACGGCCTGAACCTCTCGGCCAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTCAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGCATCCTCAGGCGGCTGAAGAA
GTATGACAACTGCTGGTTGGCTCTCACTGACCCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCAC
CCAAGAGCAAAGAGACACAGTGCCCATCCCCAAAACAGGCCTCAGCCAGCTCGGTCGCTGGATGTCAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCCAGGGTGCATGAAAGGTCGCACCATGTACGTCATCCCATTCAGCAT
GGGGCCGCTGGGCTCGCCTCTGTCAAAGATCGGCATCGAGCTGACGGATTCACCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCCGTCCTGGAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGCCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACTGGCCCTGCAACCCGGAGCTGACGCTCATCGCCCA
CCTGCCTGACCGCAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAACTCGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCCTGAGGGTGAGAAGAAGTACCTGGCGGCCGCATTTCCCAGCGCCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCCAGCCTCCCCGGGTGGAAGGTTGAGTGCGTCGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTCGGTGTCGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGAACACAATCTTTACCAATGTGGCCGAGACCAGCGACGGGGGCGTTTACTGGGA
AGGCATTGATGAGCCGCTAGCTTCAGGTGTCACCATCACGTCCTGGAAGAATAAGGAGTGGAGCTCAGAGGATGG
GGAACCTTGTGCCCACCCCAACTCGAGGTTCTGCACCCCTGCCAGCCAGTGCCCCATCATTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCCATTGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGCATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACTTCGGCAAATACCTGGCCCA
CTGGCTTAGCATGGCCCAGCACCCAGCAGCCAAACTGCCCAAGATCTTCCATGTCAACTGGTTCCGGAAGGACAA
GGAAGGCAAATTCCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGCTGGAGTGGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCCAAGGAGGATGCCCTGAACCTGAAAGGCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATTCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCCTGTGAAATCGAGAGAGAGATCCTTGCCTTGAAGCAAAGAATAAGCCA
GATG**TAA**TCAGGGCCTGAGTGCTTTACCTTTAAAATCATTCCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAATTGACGCCACCATAATAATCATCACCACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACACTGGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAAATTCACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACTTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAAATACTTGAGCTGTATATATATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGCATGTATGTGCACATGTGTCTGTGTGGTATATTTGTGTATGTGTATTTGT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTCCTTGAA
AAAAGTTGCTTTGTTATTAATATTGTGCTTAAATTATTTTTATACACCATTGTTCCTTACCTTTACATAATTGC
AATATTTCCCCCTTACTACTTCTTGGAAAAAAATTACAAAATGAAGTTTTATAGAAAAG

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FIGURE 5822

MPPQLQNGLNLSAKVVQGSLDSLPQAVREFLENNAELCQPDHIHICDGSEEENGRLLGQMEEEGILRRLKKYDNC
WLALTDPRDVARIESKTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRTMYVIPFSMGPLG
SPLSKIGIELTDSPYVVASMRIMTRMGTPVLEAVGDGEFVKCLHSVGCPLPLQKPLVNNWPCNPELTLIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMMNPSL
PGWKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDE
PLASGVTITSWKNKEWSSEDGEPCAHPNSRFCTPASQCPIIDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSW
QHGVFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKF
LWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEDQV
NADLPCEIEREILALKQRISQM

FIGURE 5823A

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AACCCGATCTCCTTGGACTTGAATGAGGAGGAGGAGGCGGCGGCGGCGGCGGCGGCGGAGGCGCTCGGCTGGGGA
AAGCTAGCGGCAGAGGCTCAGCCCCGGCGGCAGCGCGCGCCCCGCTGCCAGCCCATTTTCCGGACGCCACCCGCG
GGCACTGCCGACGCCCCCGGGGCTGCCGAGGGGAGGCCGGGGGGGCGCAGCGGAGCGCGGTCCCGCGCACTGAGC
CCCGCGGCGCCCCGGGAACTTGGCGGCGACCCGAGCCCGGCGAGCCGGGGCGCGCCTCCCCCGCCGCGCGCCTCC
TGCATGCGGGGCCCCAGCTCCGGGCGCCGGCCGGAGCCCCCCCCGGCCGCCCCCGAGCCCCCCGCGCCCCGCGCC
GCGCCGCCGCGCCGTCCATGCACCGCTTGATGGGGGTCAACAGCACCGCCGCCGCCGCCGCCGGGCAGCCCAATG
TCTCCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGATCACGGAGCTGGAGTTTGTTCAGATCA
TCATCATCGTGGTGGTGATGATGGTGATGGTGGTGGTGATCACGTGCCTGCTGAGCCACTACAAGCTGTCTGCAC
GGTCCTTCATCAGCCGGCACAGCCAGGGGCGGAGGAGAGAAGATGCCCTGTCCTCAGAAGGATGCCTGTGGCCCT
CGGAGAGCACAGTGTCAGGCAACGGAATCCCAGAGCCGCAGGTCTACGCCCCGCCTCGGCCCACCGACCGCCTGG
CCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCCACCTATCCGTACCTGCAGCACGAGATCG
ACCTGCCACCCACCATCTCGCTGTCAGACGGGGAGGAGCCCCCACCCTACCAGGGCCCCTGCACCCTCCAGCTTC
GGGACCCCGAGCAGCAGCTGGAACTGAACCGGGAGTCGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTG
ACCTGATGGATAGTGCCAGGCTGGGCGGCCCCTGCCCCCCCAGCAGTAACTCGGGCATCAGCGCCACGTGCTACG
GCAGCGGCGGGCGCATGGAGGGGCCGCCGCCCACCTACAGCGAGGTCATCGGCCACTACCCGGGGTCCTCCTTCC
AGCACCAGCAGAGCAGTGGGCCGCCCTCCTTGCTGGAGGGGACCCGGCTCCACCACACACATCGCGCCCCTAG
AGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAACAGAAAGGACACCCTCTCTAGGGTCCCCAGGGGGGCCGGG
CTGGGGCTGCGTAGGTGAAAAGGCAGAACACTCCGCGCTTCTTAGAAGAGGAGTGAGAGGAAGGCGGGGGGCGCA
GCAACGCATCGTGTGGCCCTCCCCTCCCACCTCCCTGTGTATAAATATTTACATGTGATGTCTGGTCTGAATGCA
CAAGCTAAGAGAGCTTGCAAAAAAAAAAAGAAAAAAGAAAAAAAAAAACCACGTTTCTTTGTTGAGCTGTGTCTT
GAAGGCAAAAGAAAAAAAATTTCTACAGTAGTCTTTCTTGTTTCTAGTTGAGCTGCGTGCGTGAATGCTTATTTT
CTTTTGTTTATGATAATTTCACTTAACTTTAAAGACATATTTGCACAAAACCTTTGTTTAAAGATCTGCAATATT
ATATATATAAATATATATAAGATAAGAGAAACTGTATGTGCGAGGGCAGGAGTATTTTTGTATTAGAAGAGGCCT
ATTAAAAAAAAAAGTTGTTTTCTGAACTAGAAGAGGAAAAAAAATGGCAATTTTTGAGTGCCAAGTCAGAAAGTGT
GTATTACCTTGTAAAGAAAAAAATTACAAAGCAGGGGTTTAGAGTTATTTATATAAATGTTGAGATTTTGCACTA
TTTTTTAATATAAATATGTCAGTGCTTGCTTGATGGAAACTTCTCTTGTGTCTGTTGAGACTTTAAGGGAGAAAT
GTCGGAATTTCAGAGTCGCCTGACGGCAGAGGGTGAGCCCCCGTGGAGTCTGCAGAGAGGCCTTGGCCAGGAGCG
GCGGGCTTTCCCGAGGGGCCACTGTCCCTGCAGAGTGGATGCTTCTGCCTAGTGACAGGTTATCACCACGTTATA
TATTCCCTACCGAAGGAGACACCTTTTCCCCCCTGACCCAGAACAGCCTTTAAATCACAAGCAAAATAGGAAAGT
TAACCACGGAGGCACCGAGTTCCAGGTAGTGGTTTTGCCTTTCCCAAAAATGAAAATAAACTGTTACCGAAGGAA
TTAGTTTTTCCTCTTCTTTTTTCCAACTGTGAAGGTCCCCGTGGGGTGGAGCATGGTGCCCCTCACAAGCCGCAG
CGGCTGGTGCCCGGGCTACCAGGGACATGCCAGAGGGCTCGATGACTTGTCTCTGCAGGGCGCTTTGGTGGTTGT
TCAGCTGGCTAAAGGTTCACCGGTGAAGGCAGGTGCGGTAACTGCCGCACTGGACCCTAGGAAGCCCCAGGTATT
CGCAATCTGACCTCCTCCTGTCTGTTTCCCTTCACGGATCAATTCTCACTTAAGAGGCCAATAAACAACCCAACA
TGAAAAGGTGACAAGCCTGGGTTTCTCCCAGGATAGGTGAAAGGGTTAAAATGAGTAAAGCAGTTGAGCAAACAC
CAACCCGAGCTTCGGGCGCAGAATTCTTCACCTTCTCTTCCCCTTTCCATCTCCTTTCCCCGCGGAAACAACGCT
TCCCTTCTGGTGTGTCTGTTGATCTGTGTTTTCATTTACATCTCTCTTAGACTCCGCTCTTGTTCTCCAGGTTTT
CACCAGATAGATTTGGGGTTGGCGGGACCTGCTGGTGACGTGCAGGTGAAGGACAGGAAGGGGCATGTGAGCGTA
AATAGAGGTGACCAGAGGAGAGCATGAGGGGTGGGGCTTTGGGACCCACCGGGGCCAGTGGCTGGAGCTTGACGT
CTTTCCTCCCCATGGGGGTGGGAGGGCCCCCAGCTGGAAGAGCAGACTCCCAGCTGCTACCCCCTCCCTTCCCAT
GGGAGTGGCTTTCCATTTTGGGCAGAATGCTGACTAGTAGACTAACATAAAAGATATAAAAGGCAATAACTATTG
TTTGTGAGCAACTTTTTTATAACTTCCAAAACAAAAACCTGAGCACAGTTTTGAAGTTCTAGCCACTCGAGCTCA
TGCATGTGAAACGTGTGCTTTACGAAGGTGGCAGCTGACAGACGTGGGCTCTGCATGCCGCCAGCCTAGTAGAAA
GTTCTCGTTCATTGGCAACAGCAGAACCTGCCTCTCCGTGAAGTCGTCAGCCTAAAATTTGTTTCTCTCTTGAAG
AGGATTCTTTGAAAAGGTCCTGCAGAGAAATCAGTACAGGTTATCCCGAAAGGTACAAGGACGCACTTGTAAAGA
TGATTAAAACGTATCTTTCCTTTATGTGACGCGTCTCTAGTGCCTTACTGAAGAAGCAGTGACACTCCCGTCGCT
CGGTGAGGACGTTCCCGGACAGTGCCTCACTCACCTGGGACTGGTATCCCCTCCCAGGGTCCACCAAGGGCTCCT
GCTTTTCAGACACCCCATCATCCTCGCGCGTCCTCACCCTGTCTCTACCAGGGAGGTGCCTAGCTTGGTGAGGTT
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6304/6881
FIGURE 5823B

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ACTCCTGCTCCTCCAACCTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTGTGTGTGCATGGTGTCAGCCCAAAGCCAGGCTGAGACAGTCCTCATATCCTCTTGAGCCAAACTGTTTGG
GTCTCGTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTTGAAGCCCAGTGTCCTCAGCTTCA
TGTCCAGTGGATGGCAGAAGTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGGAAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGCACCCTTTCCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACTCTTGGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTC
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTCAGAGAAGGCCG
AGCGTGGCTTTCTCTAGCCTTGTCACTGTCTCCCTGCCTGTCAATCACCACCTTTCCTCCAGAGGAGGAAAATTA
TCTCCCCTGCAAAGCCCGGTTCTACACAGATTTCACAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTGCAAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTCATTCCC
TGTCCTCATTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAATTTTTTTTCCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTGTTTTTCTGGAAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCCTCCCCTGCCTGCCTGATTCCATGGCTGTTGTGCTGATTC
CAATGCTTTCACGTTGGTTCCTGGCGTGGGAACTGCTCTCCTTTGCAGCCCCATTTCCCAAGCTCTGTTCAAGTT
AAACTTATGTAAGCTTTCCGTGGCATGCGGGGCGCGCACCCACGTCCCCGCTGCGTAAGACTCTGTATTTGGATG
CCAATCCACAGGCCTGAAGAAACTGCTTGTTGTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAATTTTACAATTCTTTGG
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6305/6881
FIGURE 5824

GCGCGCCCACCCGGTAGAGGACCCCCGCCCGTGCCCCGACCGGTCCCCGCCTTTTTGTAAAACTTAAAGCGGGCG
CAGCATTAACGCTTCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAAC**ATG**

GCGAAGGTGGAGCAGGTCCTGAGCCTCGAGCCGCAGCACGAGCTCAAATTCCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCCAACAGCGGAATCATCGATGCAGGGGCCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTCAGTCTATGTTTGCTCCAACTGACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAAACTTAGATGTGTGTTTGAATTGCCA
GCAGAGAATGATAAACCACATGATGTAGAAATAAATAAAATTATATCCACAACTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTCAGAGGCTACGGGAGGAGAACAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTCAGCATTAGCCCCAACTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGGCT
CTGGTGGTTTTGTTCTTTATCGTTGGTGTAATTATTGGGAAGATTGCCTTG<u>TAG</u>AGGTAGCATGCACAGGATGGT
AAAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTTAGAAAGTTAAAAATGTATAGTAACTGATTGAGGGGGAAAAGAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCTTGGTACATG
ATGCTGGATTACCTCTCTTAAAATGACACCCTTCCTCGCCTGTTGGTGCTGGCCCTTGGGGAGCTGGAGCCCAGC
ATGCTGGGGAGTGCGGTCAGCTCCACACAGTAGTCCCCACGTGGCCCACTCCCGGCCCAGGCTGCTTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTACTCGTCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTCATGTAGTGAAGTCAAACTGTTATTCAGAGAT
GTTTAATGCATATTTAACTTATTTAATGTATTTCATCTCATGTTTTCTTATTGTCACAAGAGTACAGTTAATGCT
GCGTGCTGCTGAACTCTGTTGGGTGAACTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTTTTTTCTGGGTCAGTAAAT
AACAACTGTCATAGGCAGGGAAATTCTCAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACCTCTCAACCATTACTCACACTTCCAGCGCCCAGGTCCAAGTTTGAGCCT
GACCTCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

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FIGURE 5825

MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNPTDRNVCFKVKTTAPRRYCVRPNSGIIDAGASINVSVMLQP
FDYDPNEKSKHKFMVQSMFAPTDTSDMEAVWKEAKPEDLMDSKLRCVFELPAENDKPHDVEINKIISTTASKTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPISALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

6307/6881
FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCCTCTCCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCGGGAGGAGACAGAACTTTCCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGTGTACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGGCAGGCCGGCTTCTCGGTGTGTGCCTAAGAGG**ATG**GATCG
GAGGTCCCGGGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCGCCCATAGGCCGCCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCCCGTGCCCA
GCAGCGCGCGGCTGCCCAACAGCGCCGGAGCTTCCTTAACGCCCACCACCGCTCCGGCGCCCAGGTATTCCCTGA
GTCCCCCGAATCGGAATCTGACCACGAGCACGAGGAGGCAGACCTTGAGCTGTCCCTCCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTCGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCCACCACTGAGCCCGAGACCGAGCCTGAAGACGATCGCGGCCCGGTGGTGCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCCTCCCCAAGTCGCGC
GCCGCCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCAAGGAGGAGAAGCAGCGGCGTCGCTGCAAGCCAAAGAAGCCCACCCGCCGTGA
CGCGTCCCCGGAGTCCCCTTCCAAAAAGGGACCCATCCCCATCCGGCGTCAC**TAA**TGGAGGACGCCGTCCAGATT
CTCCTTGTTTTCATGGATTCAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGCAGGCTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTG
GTGCCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCGTGCCTGCTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCTCATTTC
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAATTAAAAGTGAA
ACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGA
TTTTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAAAATTAAATGTG
AGCAAAGAAAAAAAA

6308/6881
FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQQRRSFLNAHHRSGAQV
FPESPESESDHEHEEADLELSLPECLEYEEEFDYETESETESEIESETDFETEPETAPTTEPETEPEDDRGPVVP
KHSTFGQSLTQRLHALKLRSPDASPSRAPPSTQEPQSPREGEELKPEDKDPRDPEESKEPKEEKQRRRCKPKKPT
RRDASPESPSKKGPIPIRRH

6309/6881
FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCCAGGTGCTGCAGGGGTCCCCGGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGCTACAGCCCTCCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCCGGGGCTTTCCCGAGTTATCGCACAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCCTCGAGTGCGGTCCGCCTCACTCCCGCCGCGAACGCGCCTCCCCTCTGGGTCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTCAGACCTCCTTCTAACTTCACGGGCAGCAGCCCCTGGATGGAG
ATCTCCGGACCCCCGTTCGAGATTGGCAGCGCCCCCGCTGGGGTCGACGACACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCGCCCATCAAGGTCTCCGGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCTGCCGCCGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCCAGAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTCGCAGCCGAT
CCCGACTCCGGGGCAGCCCCTGCCGCCCCAGCCGATCCCGACTCCGGGGCGGCCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGCCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGCCCCTGAGGCTCCCGCCGCCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTCGCCCCAGCTGCGCCAGACGCAGGGGCTCCCACTGCCCCAGCCGCTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCTCTGCAGCCCCTGCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCCGAGATCCAGGCTGCCGATCCGCCTACTCCGCGGCCTACTCGCGCGTCTGCCTGGCGGGGC
AAGTCCGAGAGCAGCCGCGGCCGCCGCGTGTACTACGATGAAGGGGTGGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGGATGCCTCCGCTGGTTTCAGCATCGGCGAAATCGCCGCCGCCGAAAGCCC
CAGCGCAACTTACTCCGCAACTTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAAGAAGCCCTG
GAGAAGCGGGCCCAGAAGCGCGCAGAGAAGAAACGCAGTAAGCTCATCGACAAACAACTCCAGGACGAAAAGATG
GGCTACATGTGTACGCACCGCCTGCTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGCAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCGT
GCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCCTGGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCCTGACTTCTGGAATCTTTGAGACC
AAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGAC
AACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGAC
TACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTCATTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCATTTCACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGC
ATGCACCTTCGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGC
CTACAGAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAAAA
TTAAATGTGAGCAAAG

6310/6881
FIGURE 5829

MQALRLRPALMEPGAFSGARPGLGGYSPPPEEAMPFEFDQPAQRGCSQLLLQVPDLAPGGPGAAGVPGAPPEEPQ
ALRPAKAGSRGGYSPPPEETMPFELDGEGFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPDSGATPEDPDSGTAPADPDSGAFAAD
PDSGAAPAAPADPDSGAAPDAPADPDSGAAPDAPADPDAGAAPEAPAAPAAAETRAAHVAPAAPDAGAPTAPAAS
ATRAAQVRRAASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRRVYYDEGVASSDDDSSG
DESDDGTSGCLRWFQHRRNRRRRKPQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSKLIDKQLQDEKMGYMCTHRLLLLGAGESGKSTIVKQMRILHVNGFNGEGGEEDPQAARSNSD
GEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFHMFDVGGQRDERRKWI
QCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAGKSKIED
YFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFLRISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIIQR
MHLRQYELL

FIGURE 5830

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CCGCCGCCGCCGCAGCCCGGCCGCGCCCCGCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGCAGGCTGCAAGGAGCAACAGCG
ATGGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCA
TGAGCAACCTGGTGCCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGA
TGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGC
GTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCCTGGACAAGATCGACGTGA
TCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCCTGACTTCTGGAATCTTTGAGA
CCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGA
TCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGG
ACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCA
TCTCTGTGATCCTGTTCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGG
ACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGA
CCCGGGCCAAGTACTTCATTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCT
ACCCTCATTTCACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGC
GCATGCACCTTCGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAA
TTAAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTT
CCCCCGAGTGATTTTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCG
GCCTACAGAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCA
AACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAA
AATTAAATGTGAGCAAAG
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6312/6881
FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNGEGGEE
DPQAARSNSDGEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFHMFDVG
GQRDERRKWIQCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFLRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

6313/6881
FIGURE 5832

CCGCCGCCGCCGCAGCCCGGCCGCGCCCCGCCGCCGCCGCCGCCGCC**ATG**GGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGACAGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACC
TGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTGCCCCCCGTGGAGCTGGCCAACCCCGAGA
ACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGC
ATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCGTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACT
GTGCCCAGTACTTCCTGGACAAGATCGACGTGATCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTC
GCTGCCGTGTCCTGACTTCTGGAATCTTTGAGACCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACG
TGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGG
CCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCA
AGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATCCTGTTCCTCAACAAGCAAGATCTGCTCGCTG
AGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATG
CTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTCGAGATGAGTTTCTGAGGATCA
GCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCTCATTTCACCTGCGCTGTGGACACTGAGAACATCCGCC
GTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTTCGTCAGTACGAGCTGCTC**TAA**GAAGGGAACC
CCCAAATTTAATTAAAGCCTTAAGCACAATTAATTAAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACC
ATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGATTTTGCGAAACCCCCTTTTCCCTTCAGCTTG
CTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTCA
CTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATT
GTGTTGTGCAGCATTAAAAAAAAATCAAAATAAAAATTAAATGTGAGCAAAG

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FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNGDSEKA
TKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVRACYE
RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFHMFDVGGQRDERRKWIQCFN
DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAGKSKIEDYFPE
FARYTTPEDATPEPGEDPRVTRAKYFIRDEFLRISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIIQRMHLR
QYELL

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FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCC**ATG**GCGAGGCGCGGGCCAGGGTGGCGGCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATACCCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCCACGCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAACCATGTCGTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCCATCGTT**TAA**GGCCATGTCACTAGAAGCG
CAGTTTAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGCACAGCATGGCTCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTTGTATTTGGCAACTGTGGGC
AATAATATGGCATTTAAGAGGTGAAAGAGTTCAGACTTATCACCATTCTTATGTCACTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

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FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNVDGVN
YASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGIP
DETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

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FIGURE 5836

CGGGTAGCGCGCTCTGAAAGTTTATGACCGCCGCAGCCAACTCCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCCACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTCGCGGCCACAAGC
GGCCGTCCTCCTGGTCCGGTGCTCCGGCGCCTGATCTAGGTTC**ATG**GAGCCGGGGCTGTGGCTCCTTTTCGGGCT
CACAGTGACCTCCGCCGCAGGATTCGTGCCTTGCTCCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGCCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTCACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAACTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCGCTGCGCTTG
TGTGGGGAGATATGACAAGGCCTGCCTGCACTTTTGCACCCAAACTCTGGACGTCAGCAGTAATTCAAGGACGGC
AGAAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGCTGCCTCTTTCAGGAAGG
AGCCCCT**TAG**GAGGACAGGCCTGCAGCTCCAATTTCATGCAGGAAATTGGTTTTGGAGAGTTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAACTCTTTGCAAATGTAA
ACACATGTCCATCTTGTTAATAAATGCAAAATGCCCGTGCAGCAGAAGCATGCGACTTTCATATCCTTGCCTAGA
ATAGGCTGCATGGTGTATGTCAGTGAGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTCCTGTTCAGTGACTGACCCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCTTGTTTGCAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTCAT
GAGTAAATGTGGATCTTTGGGGAATGGCTTCAAAATAAGTCACGAACACAAATTCTTTGTAAATTATGTAAATTC
CTGTTTATATAAATTGGCAACAACTTATACCGTCTGACAGTTCAAAATCTCTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCCACCATGTAAAGTCGCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGTATTTCATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAAACTGTTCTCCACTCCAACTCCTTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAAATGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

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FIGURE 5837

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGPS
PGSPGQEQAAEGAPEHHRSRRCTCFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRCACVGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEEGKVEVKDQQSKQALDLHHPKLMPGSGLALAP
STCPRCLFQEGAP

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FIGURE 5838

GGCACGAGGCGGCCGCCCGCCGGC**ATG**AGCTACGACCGCGCCATCACCGTCTTCTCGCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGGTTGGTGTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAAACTGCAGGATGAAAGAACAGTGCGGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATACCATGCCTGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAACTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAAGAAAAAGAAGAAAACGAAAAGAAG
AAACAAAAGAAAGCATCA**TGA**TGAATAAAATGTCTTTGCTTGTAATTTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCTTTCCATTCCATTTATTCACACTGAGTGTCCTACAATAAACTTCCGTATTTTT

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FIGURE 5839

MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNGRRPFGISALIVGFDFDGTPRLYQTDPS
GTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

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FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACC**ATG**TCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCCTGCCCCGCCCACGCAGAACAT
GAACCTGGGCCCTGGAGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCCTGCCACCCTCCTCCCTCCTGCAGGGCCAGATTGGCAACGGGCCGAGCCACGTGTCCATGCA
GCAGACGGCGCCTAACACGCTGCCCACCACCTCCATGAGCATCTCTGGGCCCGGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTCGCACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTCGTCCATCGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGGCAGCGGCCCATGGC
GCCCTACCGGCCCTCCCAGCAAGGCTCTTCCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGCCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCATCCTACACGGAGCAGAGCTACGACCGGTCCTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAAACTC
CCAGTACAGCCAGCAGCAGGCCGGGTACCAGCAGGGTGCCGCGCAGCAGCAGACGTACTCCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGGCAGCAGCAGGGCTACGGGTCTGCCCAGGGAGCCCCGTCACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCGCAGACAGCGCCGTCTGCCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAAATTACCAGCAG**TAA**GGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTCATCCAGGGGCCGGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTCGCCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACTTTTGGTGCTGTGTATAGTATTGTATGTCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGGTCATTTTGTCATCAGAGCATTCTGTGCCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTTCCTCCTCATG
CAGTGTTGTAGTGTGGGTTGTCAACTTTTCTTTAACTGGCTACGCCACAGCTGGACACACATGCAGCCCCTGGAG
GGCAGCCTCTTCCTGTGCCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTCAGTTTCTGTTACGTA
ACGAAAAGGATAAACATCTCCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCCATTGCCTGTCTCTC
GCCAATTCCGTTTATCCAAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCCTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCAG
CTCTCTGGGAAGTGGGCCCTCAGAGATTACTCTGGCTTTGACCCTTGTTTAGCTGATGGTCATTTCTGGGATTGG
AATATTTAATAAGCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAAATCTTCCCAACAGTTGGCAA
GTTGTTTATTTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTTCTTTTCTTTTAGGG
ATGTCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTTCTAATGAAAAGTAAAGGTTTTATATAGAGAAACTT
GAGTAATTTTTACATTTCTAAGACATTAAATCCCATTTAAATTCTGTGTGAACATTAAAGACAGCACACTTGCAA
AAGTATGGTCAAAGGAAAAAAATCCCACATTTCAATTAACAAGTAGCATGGACATTTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTTGCTATGAATCCTTTTAAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAACTA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCTAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAAGTTAAAAGTAATTCTTGGCGTGGTGGTTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGCATACCTGTAATCCCAGCTACTCGGGAACCTGAGGCAGGAGAATGGCTTGA
ACCCAGGAGACAGAGGTTGTGGTGGGGCAAGATCGCACCATTGCACCCGAGCCTAGGCAACAAGAGTGAAATTCC
GTCTCAAAAAAATAAATAAATAAATAAATAAATAAGTTAAAATTAATTCTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACTTATGTGTTTTGCTTGAATTAATTCTGACAGCCCCTATGAGGAAATCTGGAGGCAGGTAACAG
TTCCCATTTTAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCTGTGTTGAATACCAGTCCTGTTCTAGG
ACATTCTCCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTTTATTTTGTAGGCACTAAGG
GTTTCTAAAACCCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTCATATTCGATCACCGAAATGAGAG
TTCTTAATTGCTAATTGACAAACGCGTTAGCAATTTCAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTTCCT
GTCAATTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAAATTTCCCACTGAAAATGTTAAACATTTTAG
ATAACTGTGAAGATAGTTTATTTTTATTCCTTGCCAATCTGGGAATATGCCTTTTTTGTGTGTTTGTGTGTTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCCAAAACTTCAATCTGAAATGTCTTACA

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FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCCTAAT
TTATACATGATTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTTTA
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTCATTATTCTATCTTCTGTCATATGAATGTTGAGCAA
AGCTTAGGCCAACATGAATTGTTTGTGAAGTGTGGTTGATGGTGCTTTGTTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCCTATTGTTCCCTGACATCCAGCAAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTCAGAAGTGCTGACAAATTCATATTGGTATGCAAAAGCTCATCACC
CATTAAGGTTTGTTGTTGAATCAACAGTACTCAGCATATTAAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTGTCAGGGTTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCCTTCAAAACTGTACAAAGAAGACGACTGTTTTCCATTTCCATTAAACATTTT
TAGCCACTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAAACA
TCCTTATCGGTTATTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGTAATCTCTTAATA
AACTGGTTCTTCAAAAATC

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FIGURE 5841

MSVAFASARPRGKGEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSLL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGP
GYSHAGPASQGVPMQGQGTIGNYVSRTNINMQSNPVSMMQQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGSS
MMGQRPMAPYRPSQQGSSQQYLGQEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGQQYGSYRAPQTA
PSAQQQRPYGYEQGQYGNYQQ

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FIGURE 5842

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GGGGCCATGGCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTG
TCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTCGGCCGT
GCGGACCTCGCCAAGCATCAGGAACTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCGTCGGTCCTGTCGCGGTACCAGGGTTTCAGTGGAGAAGATGGAGGGAGTAAAAACTGCTTGGGCGC
AGTGGCGCCGTCCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGCGTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGCAGGAGGGAAAGGCAACCGCTTCTTCCTGGCCAAC
AACAACCGTGCCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCCACGCCGGAATGGTGGGATTCCCCAACGCCGGGAAGTCCTCACTGCTCCGGGCCATTTCAAACGCCAGA
CCCGCCGTGGCTTCCTACCCGTTCACCACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATACGAGGCGCCCACCAGAACAGGGGTCTGGGGTCCGCCTTCCTCAGG
CACATCGAGCGCTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TTAAAATATGAACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCACGCAATCGTCGCAAACAAGATTGAC
CTCCCTGAAGCCCAAGCCAATCTGTCCCAGCTCCGGGATCACTTGGGACAGGAGGTCATCGTGCTGTCGGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCGCTCAGGTGGTAGCCACGCCAGAGCGGGGTCGCCTCTGGGCCTCTGTCTGAGCAAACCTGG
GTGTGAATTCGGTGGTTTTGAATGCATAAAGTGCCTTGTGGACACGGGGGAGTTGTGGTGCTTCTGGGTCTCTGG
GCCCCGCCTGCTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCCGTGCCCCCTACCCCGCCTGCCCTCCGTATT
TCCTGCACCTGTCAGCCTGCACCGACTGATGAGCCAGTTGCTCATTTGTGCTGATTAACACCCCTAATAAGGGGT
TGGGGTGCCCATAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGACTCTCGGATGAGCT
CAGCAGAACCGCACAGCCAGAGCCCCAGGTCAGAAGTGCAGACCAGGGTTCTCAGCACAGTGCCCGTCGTGCTTC
CATGGCTTGCTACGGAGAGAGACCTCTGGATCCACACTGGGGCTGCGTCTGGCCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCCAGGCACCAGTGTCTCGGGGGGGCCTCACTGCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCCT
GTCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGGCGGCCGTGGCATGGGCAGGGTATAGTGAGGAGTGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTTGCTGGGGATTTAAAGAGAACCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGGCCTTCGCCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTTGACCGT
CGAGACTGCAGCAGCGCCTTTCCTGTCTGTGGTTTAAGTCTTTGCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGCCCCTAAGAAAGAAAGTGGAGGGGACA
CTCCAGAGGCTGTCGTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
ACTCCAGCCTGAGTGACAGAGCGAGACCCTGTCTCAAAAAACAAACAAACAAACAAACAAAAACAGAACATTCTG
GGCACGGTGGCTCATGCCTGTAGTCCCAGCACTTTGGGAGGCCGAGGCTGGTGGATCACAAGGTCAGGAGATTGA
GACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACCTGGGAGGCGGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC
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FIGURE 5843

MAPARCFSARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTLVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFPNAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIPGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKGLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLYDAYAEAELGQGRQPLRW

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FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGG**ATG**ACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTCAGCAGACGGACGACTCGCTTATTCACTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTGAGTTCAAGCGGGT
GCCGCAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAAGTCAACGAGTATCTGAACAACCCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCG
GAGCCAGTCGGCAGCGGTCACCCCGTCATCCACCACCTCTTCCACCCGTGCCACCCCAGCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCGAGCCCCGCGCCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCCGACCCA
GCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGCAGACCGCGGATGAGATCCAGAATACCCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTCAGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAAGCCATGCAGAACAACGC
CAAGCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCCTGGAC**TGA**GCCAC
GCGCCGTCCTCCGAGGAACTGGGCGCTTGCAGTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA
GTCTTTTCCTTTACCTGCAAAAAAA

6327/6881
FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTVTPDKRKGLVYIQQTDDSLIHFCWKDRTSGNVEDDLII
FPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNNPPMPGALGASGTSGHELSAL
GGEGGLQSLLGNMSHSQLMQLIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSSRSQSAAVTPSSTTSST
RATPAPSAPAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSILATMNVPAGPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLPSGESLPQTADEIQNTLTSPQFQQALGMFSAALASGQLGPLMCQFGLPAEAVEAANKGDVE
AFAKAMQNNAKPEQKEGDTKDKKDEEEDMSLD

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FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGGAGCGCACTGTGTGTTCGCGGCCCCCGGGGCCCCGCGCCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGCGCGGCGCGGGCGCGGGAGGAGGCGGGCGGCGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGCGCCCGCATCGCCGCCTCCGCGACCTGCGGAGAGGAGGCCCCGGCGCGCGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGGCGGCGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCCACCGCTGTCCCGCGGCCTGGAGTACAACGAGGTCAACGTCACCCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCCTCATCAAGTTTGCCAACTCACCCCGGCCGGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCCTCCTCCAAGAGGGACTGTCTGGAGCGGTTCGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTCACGCATCGTGCCCCTG
GAGAACGGAGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCCTACTCGCCGCTGCTA
CGTGAGTTCACCAAGGCCACCAACGTCCGCCTGCGCTTCCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCCACGGTCACCCGCCGGTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGT
GTCTGCCACGGCCACGCGGATGCCTGCGATGCCAAAGACCCCACGGACCCGTTCAGGCTGCAGTGCACCTGCCAG
CACAACACCTGCGGGGGCACCTGCGACCGCTGCTGCCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCCTGTAACTGCTACGGCCATGCCACCGACTGTTACTACGACCCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACC
ACCGGCGTCAACTGTGAGCGCTGCCTGCCCGGCTTCTACCGCTCTCCCAACCACCCTCTCGACTCGCCCCACGTC
TGCCGCCGCTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTCGATGCTACTGCCGG
CCCAACTTCTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTCACGGGCTTCCCAAGCTGCTACCCGACGCCC
TCGTCCTCCAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCCTGCCGGAAGGACCCAAGGGTGGGACGCTGTCTGTGCAAACCCAACTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCCTGACACAGGCCAGTGCAGGTGCCGAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGAT
GAGGCCGGCCGCTGCCTATGCCAGCCTGAGTTTGCTGGACCTCATTGTGACCGGTGCCGCCCTGGCTACCATGGT
TTCCCCAACTGCCAAGCATGCACCTGCGACCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGGAGTGGGCAGTGCAGCTGCCGGCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCTACAACTTCCCCTACTGCGAAGCTGGCTCTTGC
CACCCTGCCGGTCTGGCCCCAGTGGATCCTGCCCTTCCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGCCGAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGCTTCTGCAAG
CCCCACGTGTGCGGCCAGGCCTGCGCGTCCTGCAAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGC
TGCCGCAGCTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTCGGCCACCTGCGCCAACTGCACAGCACAGAGTCAGCCCGTGGCCTTCCCACCCAGCACGGAGCCT
GCCTTCATCACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCCTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTGCTCCTGGACTACGTGGTTCTGCTGCCTAGCGCATACTACGAGGCGGCGCTCCTGCAGCTG
CGGGTGACTGAGGCCTGCACATACCGTCCCTCTGCCCAGCAGTCTGGCGACAACTGCCTCCTCTACACACACCTC
CCCCTGGATGGCTTCCCCTCGGCCGCCGGGCTGGAGGCCCTGTGTCGCCAGGACAACAGCCTGCCCCGGCCCTGC
CCCACGGAGCAGCTCAGCCCGTCGCACCCGCCACTGATCACCTGCACGGGCAGTGATGTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCACACCCCACAGCGGGCCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCCTG
TGCCGGGGCACTGCCCGGGATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCCTGCACGGGGTCACTCTGGTGCCCATTGAGGAGTTCAGCCCGGAGTTCGTG

6329/6881
FIGURE 5846B

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GAGCCCCGGGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCCACCGCTGTGGACCCTGATGCA
GAGCCCACCCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTCACCACCCATGTGCCCACGCTGGGCCGCTATGCC
TTCCTGCTGCACGGCTACCAGCCAGCCCACCCCACCTTCCCCGTGGAAGTCCTCATCAACGCCGGCCGCGTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGCTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCCAAGGGCCGGTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCCTGGATAAATCCTATGACTTC
ATCAGCCACTGCGCAGCCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCCATGTCATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCACGGGCCAGTGCATCTGC
CCGCCACGCACCATCCCGCCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCCTGGTCGGCTGT
GAGGAGTGTAACTGCTCAGGGCCCGGCATCCAGGAGCTCACAGACCCTACCTGTGACACAGACAGCGGCCAGTGC
AAGTGCAGACCCAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCCGCTGCCGC
CCCTGTGACTGTCACGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCCTCACAGGGCAGTGCTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACCAGTGCAGCCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCCTACACCCGCCAGGAGTTCGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCCTCCTAC
CTGGGGGACCGGGTGTCATCCTACGGTGGGACCCTCCGTTATGAACTGCACTCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGCTGCAGGGCAACCAGATGAGCATCACATTCCTGGAGCCGGCA
TACCCCACGCCTGGCCACGTTCACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACTTCCGGCATACGGAGACGCGC
AACACTGTGTCCCGCGAGGAGCTCATGATGGTGCTGGCCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCCTCGGCTGTCTTCCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCCTGGGCCGATGTGTCCCTTGTCAGTGCCATGGACACTCAGACCGCTGCCTCCCT
GGCTCTGGCGTCTGTGTGGACTGCCAGCACAACACCGAAGGGGCCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCCAGCGCCCCCTGTGTCAGCTGCCCCTGCCCCCTCTCAGTGCCTTCCAACAACTTCGCC
GAGGGCTGTGTCCTGCGAGGCGGCCGCACCCAGTGCCTCTGCAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGCTGGGCAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTCAGCGACTGCGACCCCCTGACGGGCGCCTGCCGTGGCTGCCTGCGCCACACCACTGGG
CCCCGCTGCGAGATCTGTGCCCCCGGCTTCTACGGCAACGCCCTGCTGCCCGGCAACTGCACCCGGTGCGACTGT
ACCCCATGTGGGACAGAGGCCTGCGACCCCCACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGACTGGGCGGCGC
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCCAGTGCCGC
GAGTGTGCCCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCCGCTGTGAC
CCTCACACGGGCCGCTGCAACTGCCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCCTGTTCCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCCTGCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCCTCCCCGCCATTCACGAGCAACTGCGTGGCATCAATGCCAGCTCCA
TGGCCTGGGCCCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCGCCATGAGACGGCACAGCAGCTGGAGGTGCTGGAGCAGCAGAGCACAAGCCTCGGGCAGGACGCACGGCGGC
TAGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCCTGAGCGAGCTCATGTCCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCGGGACCTGGGGGCCCCGCAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGGTGCAGGAGCAGCTGAGCAGCCTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACCGGGCAGTGGACGCCACACGGGAGGCCCAGG
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6330/6881
FIGURE 5846C

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AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGCCGCCGAGGCCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCCTGGACGTCAACCAGGACCGCCTCACCCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGCGGCAGGGCCTGGTGGACCGAGCCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCCAAGAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGTGTGCAGTCCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGCCAGG
CAGTGCTTGACGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCGTGGGGTGCACAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCC
AGGCCCGGGGGGCTGCCAGTAAGGTCAAGGTGCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCCTAAGCATCGATGAGGACATTG
GGGAGCAGTTCGCAGCTGTCAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTCACAGTGGAGAGACAGA
TGATCCAGGAAACCAAGGGTGACACGGTGGCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGGCCAGACGACTTCG
TCTTCTACGTCGGGGGGGTACCCCAGTACCTTCACGCCCCCTCCCCTGCTTCGCTTCCCCGGCTACCGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACTTCGAGAGGACCTTCCAGCTGGACACGGCTG
TGGACAGGCCTTGTGCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCGCATCAGCTTCGACAGTCAGATCAGCACCACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCCT
ACAGCGGGGTGCTCTTCTTCCTGAAGCAGCAGAGCCAGTTCCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCCACCGCCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTCCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCGTGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGGCGTGCCGCCCGACCAGCTGCCCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCCTTCGCCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAAACTCAAGCGGGCTTCGCCGATGGTG
CCCCCCATTACGTCGCCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTCGATGACCAGCTCCAGCAGATGA
AGCCCCACCGGGGACCACCCCCCGAGCTCCAGCCGCAGCCTGAGGGGCCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTACAACTTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGA
CCCCGGGGCCTGGGGCCTAGAGGACTGCAGGCCTCCCGCCGCAGCCGTCAGCCCGCCCGGCATCCTGCCTGCATGC
TGCCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGGTTCCCTGTCCAGTCACCTGGAGTTTGTGG
GCATCCTGGCCCGACATAGGAACTGGCCCAGTCTCTCCATGCACGTCCTCCCGCGAAGCTCCCGAGGCCTCCTCC
TCTTCACTGCCCGTCTGAGGCCCGGCAGCCCCTCCCTGGCGCTCTTCCTGAGCAATGGCCACTTCGTTGCACAGA
TGGAAGGCCTCGGGACTCGGCTCCGCGCCCAGAGCCGCCAGCGCTCCCGGCCTGGCCGCTGGCACAAGGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGCTGGTGACGGACGGGGCCCGGGCCTGGAGCCAGGAGGGGCCGCACCGGC
AGCACCAGGGGGCAGAGCACCCCCAGCCCCACACCCTCTTTGTGGGCGGCCTCCCGGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTCGGGTTCAGCGGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTCACACCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCCAGGCAGCGGGGGAG
TTATCACTTTAGACCTCCCAGGAGCTACACTGCCTGATGTGGGCCTGGAACTGGAGGTGCGGCCCCTGGCAGTCA
CCGGACTGATCTTCCACTTGGGCCAGGCCCGGACGCCCCCCTACTTGCAGTTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCAGTGACCCGCCCCTCAGTGCTGTGTGATGGCCAGT
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6331/6881
FIGURE 5846D

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GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCCAGCCGCCTAGGACACAGCCAACCCCGGCCCCTGGT
CAGGCCCCTGCAGCTGCCTCACACCGCCCCTTGTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTTTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTTAATTGTGAGAGATTTGTCACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT
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6332/6881

FIGURE 5847

CTTTCTCTCTCGCGCGCGGTGTGGTGGCAGCAGGCGCAGCCCAGCCTCGAA**ATG**CAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAATGGCCAGTTTAAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAATAAATAATGAAAACCT

6333/6881
FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSILRLAKA
DGIVSKNF

6334/6881
FIGURE 5849

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AGTGCGCCTGCGCGGAGCTCGTGGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGCCGCGGCCATGG
GAGAGGCCGAGGTGGGCGGCGGGGGCGCCGCAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCCGGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCCGTCGGTGTGA
ACCGACACTTCCACATGATTTGTATTCGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCCTTCCAGAAGAGATCATTCAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTCACCGACAAAGTCCTGACCGCAAACAGCAACCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACGTAGACCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACTGTGGTCGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCCAGGCCACAGTGATACCATCCCAGTGCCATGAGCCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTCAGCGGGGAAACGTGTGTGTCAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTCTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTTGGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAAAACCTCGGATTAGCAAGCAATAAAAATATGACCTCACTCTTCCTCAAAGGAGCCCCTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCCGCTGCAAGCCTCTTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCCTGTCACCCCCTCCGTGCCACGCACTGAAGGCCACCCCCACCCACCTGGGAAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAACAATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTTAAGAAGCC
TATTTTACTAGTGTTTTATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTTGTATTTTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTTGCTCAGTTTTTATATGCCAGATACAGAGAATTTGTAGCGGTTATTTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGGACCGTGCAGCTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAAGCACAAAAAAATCC
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6335/6881
FIGURE 5850

MGEAEVGGGGAAGDKGPGEAATSPAEETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLTANSNPSSPSAAKRRRT

6336/6881
FIGURE 5851

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CCCGCCGCCGCCGAGCATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGGCGCGAGGGACGCGGACGCAGGGGACGAGGACGAGGAGTC
GGAGGAGCCGCGGGCGGCGCGGCCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACTATCCGGATCTGGTGGAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCCTGCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACTGGCA
TGCCAAGCCCCTCACGCTCAGGGAGGTCGAGGTGTTTAAAAGCTCCCAGGAGATCCAGGAGCGGCTTGTCCGGGC
CTACGAGCTCATGCTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGCCTCGAGCACTTCCAGGCGCCGCTGGTCCGCTTCTTCCTGGAGGAGACGCTGGTGCGGCGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCATGTTCGCCGTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACTTCGCCTGGGAGCACTTCCGGCCCCGCTGCAAGTTCGTCTGGGGGCCCCAAGACAAGCTGCGGAGGTT
CAAGCCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCGA
CCACGAGGCCAGCACCCAGGGTCGGACCTGTGGGCCAGAGCATAGCAAGGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGCCACGG
GGAAGATAGGCCGGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGGCGGGAGCAGCC
GCCCACAGAGCCAGGCCCTCAGAGTGCCTCAGAGGTGGAGAAGATCGCTCTGAATTTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGGCGGTCAGGACCCTGGGGAGGCAGTGCAGCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGCTGGGGACAGTGCTGC
GGTGGCCAGTGGTGGTGCCCAGACCTTGGCCCTTGCCGGGTCCCCTGCCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTCGAACGGGGCCCAAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCCAGGCCCCAGCCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAGGCCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAGGCCCCCGCCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAGGCCCCAGCCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCCAGGCCCCCGCCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCCAGGCCCCCGCCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAGGCCCCAG
CCCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAAGGAGTGCCCGTCGGCGTCTTGGTCCTCCTGTCCCTGCTGCAGGGG
CTGGGGCCTCCGGAGCTGCTGCGGGCTCCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCCTGTGGGGCCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCCACCCAGCTCTCCCCTGCGCCCCTGTCTTTGTAAATTGACCCTTCTGGAGTGG
GGGGCGGCGGGCAGGGCTGCTTTTCTTAGTCTGATACCAAGCAAGGCCTTTTCTGAATAAATTCATTTGACTTTG
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6337/6881
FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDEDCEDGEAAGARDADAGDEDEESEEPRAARPSSFQSRMTGSRNWRATRDMCRY
RHNYPDLVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLLEDNHSYIQWLFPLREPGVNWHAKPLT
LREVEVFKSSQEIQERLVRAYELMLGFYGIRLEDRGTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKLELSRREQPPTEPGPQSASEVEKIALNLEGCALSQGSLRTGTQEVGGQDPGEAVQPCRQPLGAR
VADKVRKRRKVDEGAGDSAAVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVESSAKSG
KP

6338/6881
FIGURE 5853

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CCGACGCCGCAGCTCAGACTCCGCTCAGCCATGGCCGGGGCCGCGCGCGTGCGCCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCGCCGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCCCGGCCCCCCAGGGCCGCCC
GGCAAGCCCGGCCAGGACGGCATTGACGGAGAAGCTGGTCCTCCAGGTCTGCCTGGGCCCCCGGGACCAAAGGGG
GCCCCAGGAAAGCCGGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCCTGGACCCAAGGGTGCCCCTGGGGAACGGGGAAGTCTGGGACCCCCGGGGCCGCCCGGGCTGGGG
GGCAAAGGCCTCCCTGGACCCCCCGGAGAGGCAGGAGTGAGCGGCCCCCCAGGTGGGATCGGCCTCCGCGGCCCC
CCGGGACCTCCTGGACTCCCCGGCCTCCCTGGTCCCCCAGGACCTCCCGGACCCCCTGGACACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAGGGTGACCCTGGCCCC
CCTGGGCCCGCCGGCCTCCCGGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTACGAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGGACCGGGGTCCCATTGGGTTCCGAGGGCCGCCTGGGATCCCAGGAGCGCCTGGGAAAGCGGGT
GACCGAGGCGAGAGGGGCCCAGAAGGGTTCCGCGGCCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGGCAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTCGCAACGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCCTGGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCCACAAGGCCCTCCCGGAGCCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGC
CTTCCAGGCCCCCAGGGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCGCAGGCCCTAAGGGAGAC
CAGGGTATTGCAGGTTCCGACGGTCTTCCTGGGGATAAAGGAGAACTGGGTCCCAGCGGCCTGGTCGGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCAGCGGTGTTCAGGGT
GTCCCCGGGGCCCCCCGGTCCTCTGGGCCTGCAGGGCGTCCCGGGTGTTCCTGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGGATGATCAGCGAACAAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTCGGCCCGGTCCAGCTGGCCCCCCCTGGGCCCCCA
GGACCCCCAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCCTGGATACCGCGGTCCCACTGGGGGAGCTGGGA
GACCCCGGGCCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGCCCCAAGGACCCCAAGGCGTGCCCGGCACCAGCAAGGACGGCCAGGACGGTGCTCCCGGCGAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTGGGGCCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTCGGGGAGAAATCAGGCTCTCGAAGCTCATAAAATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCGAAGCACAGTGGACGGTCATGAAGGAGCGGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCCTGGCTGCCCCTCGGCCGCCGACTGGACGCGCGGGCCTTGCCAGCGAGCACCCTCATCGG
GCTGTCGCCTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCCAGCATTTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACTCCACGAGGTGAAAAATATTCAGTAACTTGTTTACATAGCATTTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT
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FIGURE 5854

MAGPRACAPLLLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGIDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHPGVLPEGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQGEVGKDGEKGDPGPPGPAGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQGPPGAPGVRGFQGQKGSMGDPGLPGPQGLRGDVGDRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPGPPGPLGLQGVPGVPGITGKPGVPGKEASEQRI
RELCGGMISEQIAQLAAHLRKPLAPGSIGRPGPAGPPGPPGPPGSIGHPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSKDGQDGAPGEPGPPGDPGLPGAIGAQGTPGICDTSACQGAVLGGV
GEKSGSRSS

6340/6881
FIGURE 5855

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TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCACTCCGCGGCGTTCGGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTA
CTCGTGAACAGTGGCTGACAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTTAGGATTTCAGGGAAAAGTGTCCAAGCTTTCAGTGTTGGAGCAGGTATGGACGACAAAG
GCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCA
TTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCCTGCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTG
GGAAAGATGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTGCCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACTGCACCATTCTGCAAGTGCAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTCACG
TGGCGCAGCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCAGCGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACTGTTGTATAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCCTGGGCCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTTAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTCAGGACTTCCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTCACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTGCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTCGAACTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGACGCG
TGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTG
CAATTTTAATGTTTTCTTGTTTCTCAGTTTTCTGCTATAAAACTATTTTCAATTCAGTC
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6341/6881
FIGURE 5856

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPSKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPKEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

6342/6881
FIGURE 5857

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GGGAGCGGGAGGGCAGGCGCACCGGAGGCCGCCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGCGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGCGCAGAACTCCCCTCGCGGCGACCACGCACTACGGGTTGGCGCCAGAGTCAAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTT
GGTTGTATTTAGGATTTCAGGGAAAAGTGTCCAAGCTTTCAGTGTTGGAGCAGGT**ATG**GACGACAAAGGCGACCC
GAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTCGAAGGAC
CACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCG
GCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCCTGCCCCGCCACAGACGC
CGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCCTGAA
AGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGA
CACTGTGGAGGGCGTCCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTAT
GATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAGACTATATCTGCCCAAACTGCACCATTCTGCAAGTGCAGGATGAGACTCATTCAGAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTCACGTGGCGCA
GCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCAGCGACAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGC
TCAGGCAGGTATTAAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACTGTTGTATAAATGTATGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCCTGGGCCTGTCCAGGACTGGG
AGTTGCAGCTTTGTGT**TAA**GCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTCAGGACTTCCTGTCACTGTTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTCACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATTCGTATTC
TCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGAGTTGTTC
TGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTTGCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGGCAGATAG
GGGATTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTCGAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTTT
AATGTTTTCTTGTTTCTCAGTTTTCTGCTATAAAACTATTTTCAATTCAGTC
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6343/6881
FIGURE 5858

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPSKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPKEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGGTTG
TATTTAGGATTTCAGGGAAAAGTGTCCAAGCTTTCAGTGTTGGAGCAGGT**ATG**GACGACAAAGGCGACCCGAGCA
ATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTCGAAGGACCACTA
TCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCCTGCCCCGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTG
TGGAGGGCGTCCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTATGATTT
GCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGGAAA
GGAATGGGGAAGACTATATCTGCCCAAACTGCACCATTCTGCAAGTGCAGGATGAGACTCATTCAGAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAAACTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTCACGTGGCGCAGCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCAGCGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACTGTTGTATAAATGCTCTGGTAAGT
ATTCGTATTCTCTTCATCCCAGTCTGATTGCA**TAG**CCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTTCTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTGCATCTGATTTTCAGGTGTACATTTATTTTTGACT
GGGCAGATAGGGGATTTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTCGAACTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGAC
GCGTGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTG
GTGCAATTTTAATGTTTTCTTGTTTCTCAGTTTTCTGCTATAAAACTATTTTCAATTCAGTC

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FIGURE 5860

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPSKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPKEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

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FIGURE 5861

GGAAGCTGGTGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTGCGGCGGCCCTACCTCGGCCCTGGCCT
GACCCCGGCGGCCCTGCCCGCCCCTCCCTCCAGCATC**ATG**GCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGT
CAGGGTGCAGGATGAGAACAACGTTTGTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTCAGTGTGACCTACGG
CATCTGGATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTGTTAC
TATGGACAAGTGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGA
GTCTCAGGAGGATTACGATCCTTGCTGGTCCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAACTGGACCCCACCTCA
GCCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCAGAGTGTGACCGCCTCCTCGGACAAGGC
TTTTGAGGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCCAGGGGAATCGCTACGTGGGGTTTGGGAA
CACGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCCTCCCTGTACTCGGGCTGGAGCAG
CTTCACCACTGGAGCCAGCCGGTTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCA
GAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGGAAA
GATTTTTGATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGGTCCAGGGAGTCGGTAGTAAGGGATGGCG
GGACGTCACCACCTTTTTTTCGGGGGAAAGCAGAGGGCCCCTTGGACAGCCCCTCGGAGGGCCACAGTTATCAGAA
CAGCGGTCTGGACCACTTCCAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGCTGAGCCCAC
CAAGACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGGAGCTCGGACAG
CTGGGAGGTGTGGGGCTCGGCCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAA
GAAGGCAGTGCCGCCGGCCGTGCCCACTGATGATGGCTGGGACAACCAGAACTGG**TAG**GGCCCACTGCGCCCCCG
TCCCCAGCGCCCCCGGGCGACTTCGTGTTTGCACTCTGCCCTCGTCGTTCCTCCTCCTTCCATTTGACCCAAGAA
TCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCAGGACCCTAGGGAGACCCGGGTGTGCGCCGCCTGCGCG
TGGGGAGTCTTCGGTGCGTGGGGGCGGCTTGCTGTCCAGCCTGTGTGGGGGCCGTCCCGTCCCACACTCCCCTGG
GCATTCTTGGACTCAAGGCCGGGGCTCTGCGTGGCTTGCTGGGAGGTGGGCTGCAGCACAGAGGCCTGTGACTGC
GTTCCAGCGGCCAGTTCACTACGCAGTATCTCTGGGGCCTGGGACCAGCCACGTGCCGAGCTGTCAGCGACGTGA
GGTGTCCCTTCTCGTTGAGATATTTAACTTTGGTTTTGCTCTAGTTCTTTCTTTTTGAAGAGAGTGACTGGAGTG
GTAAAGATGGAAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCGACCACCCTCGGCTCCCGAGTCCACGC
CTGCCTGGGCCTGTGCTGTCAGACCCGCGTCGGTCGTAACCCTCTGTGGCTCCCCTGCATCAGCACCGTCCCACC
ACCAAGTTCACCAGGTTCACCAGACACGGCCTCCACAATAGCCACACCCACACCTGAGCTGTCCTCAGTGCTGGA
ACTTGACCATCCTGGAACACCCTGGAAGAAAAAGGAGCGCAGGGTGGGCCCTCGGCCCTGATGCAGGAGGGTGCG
ATAGCGGACGTGGCCAGGCAGGAGGGGCCGGGTTCAGGAGCTGAGCAGGGGATGCCTGTGCGTGGTGCCTGGGTC
TAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCCGCCACATGCCAACCCTCACCTCCCCGA
GGACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCCTTGTCTGCCCTGTGTGACCCTCAGTCTTGGCCAGCCA
TGCATGCGCCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCTCCTCCCTGCCACCATGCTCATCACTCTGGCCT
TGGCCATGCTCCCTGGTCACCCCACTTCCCGGTCGCCGTCTGCAGCACTCCTGGAGCAGCCTGGGCCCTTCAGCC
CCTGTGCTCGTCCCACCCTAGGGACTCAGTCACTTGCAGAACAGGATGGGACCGAGATTTCAGCGAGCCCTCCTG
GCGCCCGGTCCTCCCTGTGGGCACCAGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCCTTGGCTGCCACGGA
GGGATTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTCAGAGGCGGGGCATCAGAGGCTCAAGGT
GCTGAGAAGCCACCGGGAAAGCAGCCAGCACAAAGGGCCCAGGAAGCCAGCCCCCGAGAGCTGAGCGTGGGGGTC
TTTGAGTGTCTTTCTCCAAGCTGAGACGTGGGCGGCCGCGTGGTATCTCCCGAGGGCTGCTTGGACCCTGGTGGG
CTGAGTGCTCCGAGGAGGGGTGGACTCCACCTTGGACAGTGGGATGTGGTGTTCCACATGTGCCTGTTTCCACGC
CAGCACCTTGACTTGGCAGCATGGAGCCAAGGTCTGTCCCCGCCCAGGAGGGTGCCTTCCTCGGGGGTAGGGGGA
CGGCCCACTCTGCCCCAGGGAGTCCCTTTTGATGGGAAGTGCAGTCAGCAGCGTGGAGGTGTCTGGGCCACCTTC
AGAAGGTGGATGTGGTGGCCGAGACCCCGTCCACGGAGGGTGATGGCCTTTCCCTTCTGCAGGTGCGGGCAGGTG
GGCCTGGGACCGGTGCTGGGGCCTCTCCTTGCTGTGTGTGAGGGCCCAGGTGGAAGGCGCGGACCTGACAGCATT
CCAATAAAGCATACGGGAACATG

6347/6881
FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQPRTLPSMVHRVS
GQPQSVTASSDKAFEDWLNDDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQLASKVQGVGSKGWRDVTTFFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGGEGTKKAVPPAVPTDDGWDNQNW

6348/6881
FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTCAGAGTGGAGAGAGACCGGCCCCCAGTTCCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCCTGGTGGACGGGTCCTGGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCCTGGCCAGTGTCATCGCACCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAACTCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCCTCC
GCTACAAGGGGGGGAACACGTTCACAGGCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGATTCTGGTGACGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCGTGTCCTCAAGGACCTGGGCGTGAACGTCTTCGCTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCCGCCGAGGGACATCACCGTCCACAGCGTGCTGGACTTCCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGGAGCCCGCGGCAGGGCCCAGCAGCGGCTCCAGCCCTGG
ACACCCTCCCTGCCCCCACCAGCCTGGTCCTGAGCCAGGTGACCTCCTCCAGCATCCGCCTGTCCTGGACTCCAG
CCCCCCGGCACCCCCTCAAGTATCTGATCGTTTGGCGAGCCTCTAGAGGTGGCACCCCCAGGGAGGTGGTGGTGG
AGGGACCCGCCGCCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCCATCT
ATGAGGGCGGGGTTGGCGAAGGCCTGCGGGGCCTGGTGACCACAGCACCTCTGCCTCCGCCCCGGGCGCTGACCC
TGGCCGCAGTGACGCCCAGAACCGTCCACCTCACCTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCGAT
GTTCTCCTGCTTCCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTCGGGCGGCCCGAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCCGGGGCA
TCCGTGCCAGGACCCCCACCCTGGCCCCCCCGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGCCCCGAGGCCTGTGCGCCTGGTCAGGGTCACCTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTCTTCCTCCACCACCTACACTGTCC
GTGTCACCTGCCTCTACCCTGGGGGTGGCTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGCAGCCCCGTCTGGCG
TGCTTGTCTACCAGATCACGTGGACGCCCCTGGGAGAGGGGAAGGCTCACGAGATCTCTGTCCCAGGGAACCTCG
GCACGGCCGTCCTGCCTGGCCTAGGGAGGCACACAGAGTACGACGTCACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCCTGTGTCCCTCCGCTATACCCCCTCCACGGTGAGCAGGAGCCCACCCTCCAACCTGGCCCTGG
CCTCGGAGACCCCCGACAGCCTGCAGGTCAGCTGGACGCCCCCGCTTGGCCGCGTGCTCCATTACTGGCTCACCT
ACGCCCCCGCCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCCTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCACGGGCCAGACAGCCTGCCCAGCCCTCCGCCCTGACGGCTCCCTCCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCCGACCT
TCACGCTCTTCAAGGACGCCCAGCTGACAAGACGGGTCAGTGACGTCTACCCAGCCCCCCTACCTCCAGAGCACA
CCATCGTCTTCCTTGTGCGCCTACTTCCCGAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCTCCTTGGGGTTCTGCTGGATGCCGGGAAGAAGTCCCTGACCTACTTCCACCGTGACCCCAGGG
CTGCCTTGCAGGAGGCCACCTTCGACCCGCAGGAAGTGAGGAAGATTTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTCAGGCTCTATGTGGACTGCCGGAAGGTGGCTGAGCGGCCCCTTGGGGAGATGG
GCAGCCCACCCGCTGCGGGCTTCGTCACGCTGGGGAGGCTGGCCAAGGCCAGGGGCCCCCGGAGCAGTTCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGCAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCCTTCGTGTCTGCCTGTTCCTGTTCCTCAGAGACCCCTGGGCCCCCAG
GACCTCAAGGACCCCCAGGCCTCCCTGGGAGGAATGGCACCCCAGGAGAGCAGGGCTTCCCAGGGCCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGCTTCCAGGCTTGCAGGGCCACCCCGGCCACCAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAAGGGAATGAGAGGCCTGGAGGGAACTGCTGGCCTGCCTGGACCCCTGG
CCCCAGGGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGGAGAGCGAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGCCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGCAGTCCCTTGCCACCCTCTACCAGCT
TGTGAGCCAGGCCTGTGAGTCTGCCATTCAGACACACGTGTCAAAGTTCGACTCCTTCCACGAGAACACCAGGCC
CCCCATGCCCATCTTGGAGCAGAAGCTGGAGCCGGGCACTGAGCCCCTGGGGTCCCCTGGCACCCGCAGCAAGGC
CCTGGTTCCTGGAGAATGGGGGCGTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAGAT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTCTGGGAGTGACAGGACATTTTCTGCACTGCCCCGAG
GAACGCTGAGCCTTCCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCACATCCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGGAAGGAGAGGGAAGCAGCGGCCTCGGCCAAGGCCCACCCCATACTCTTGGCTCTG

FIGURE 5863B

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TAGCATTTCCAAGTTCAGATAAACCCCTGAGTGCTCACCCAGCCAAGCGAGGCGGGAGTCATTTCCTGGGAGAGT
GTCCCCCACCCTGGCTCTGTGCACCCCACCTTGAGGCCCTGCAGCTTCAGCCGCAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAAACAGGCTCAACA
ACATGCCCCGCCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCGCCTCTCTCTGCGCCTC
ACGCAGGCAACAGATGGTTCCACTGCTGGCCCACCAGTCACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGGCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCCTCTGTCCCCAGC
CCAAGAAGGAGTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCCACCCAGCCCTGTGCTGAGTTCCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCCTGGTCCTTAGGGTCTCAGAGCAAGGTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCCAGGTCTCTCCCAACCATCACAGACGCTGTGTGAGCCTGGAC
TTCCTGCCTTATCCCCACTGTGGCCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCCTT
GTGGCCCGTGGGGGTGATGTGGGAACTTCTACTTCCTTTCCAAACAAATATTCAGTAACTAGTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCTTGATATTGACAGAAGGAAAAACCCACCAAGATCACCAGTGCAGCATTGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAACACTTCATCTATGATTCAACTGTTCCA
GGAACTGACCAGACCTGGAGACCAAATAGAGAGTCATAGGCAGGGTCAGCAGGATGGGAGAGAGCGCCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAATTCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGCCCAAGCCAGCCCCTCCGTCCTGCAGGGAGGACACCTA
GGTCACTTGGCTTCTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGGTTGCTCTCACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAACTGAGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGTCATGAGGCAGGAGTGGGGCTAGAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCCTGGGGCTCTCCAATTTGATGAAGGGACTGGGCACTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGGGAACCAGGGTGGCTCTAATCCCCACCACCCCCTCAGCTGCCCTACCCCCGCCACGCTGG
TGTGACACCAGTGATGCTCAGCCTCAAAAGGGGAGTCCGGCTGTCTTCGGGAAACTGACTTTATGCTGGAGGCCA
ATTAAAATGGCACAGCAAAGGCAGCGGCCAGCTGGTGCCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCAGTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGGCCTGGCTCCTGTTTGCAGGAAGGCAGCCTCCCCGAGACCCAGCCGACCTGCACGTCTCCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCCTTTTAGGAGCCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCCTCCTGCCTTTACGGCCACAGCTCTCCCCTCCAGAGGCCCCTCTG
TAGTGGGCCTCGGTCCCCTCTCCACCCCCAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCCGTGCCCA
TGCAGCCGGGGATGTTCAGCTCAGGCCAGCCACCGAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTCATGGGGGTTGTGGGAAGGTCATGGAATCACGGGGCTCACGCTGGGGTCACAGGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCGTGCAGCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCTGAGGCCCCAAGAGCGACCTTGGAAGCTCCAGGCCTTCACAGCCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCCAGGAAGGCGGGTGCGTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGGTGCTGTGCCCGCAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCCAGGCAGTGTCAGAAATGGAAGCTGAGGAAACCCAACCCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCATCTACCAAGGACCAGGGCAGTGG
GGACGGGAGAGCTGGGACACGTGGACTCACACCAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATTCAGTGC
ATTTCTTGGGGAAGGGCGTGGAACATTTGGACTTGAGCCCCAGCACAGAGACGATGTCATAATACAGCCCCCCAT
CGTGATCTGATGGTAAGTACAGAACTCCTTGCCCAGTGGAGAAACACTCTCCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAACTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGCTGTTCAGAACTCACTCACTCACTGA
TGAAACTGGAAAAACAACCAATGATAACAAGCTAAAGAATGCCTCTAGAAGCTAAAAGACACACCCATGACTCCA
CAGTAATTCATGGGTTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAACCAAATAATGATGGATGCAGCGCCA
CGTCAGAATCTCTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTTGTTTTTTGAGACAAGGTCTTGCTCTGTCACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG
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6350/6881
FIGURE 5863C

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CAACCTCTGTGCCACCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCACAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTTGTATTTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAACTTCTGAGCTCAAACGATCCACCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAACTCAAACAATTTTAAATAGTAGAAAATAAACCCTGAAGCA
GTGTG
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6351/6881
FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLFKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSLTYFHRDPRAALQEATFDPQEVRKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAAFQLQMLQIVCSDTWADEDRCCELPASRDGETCPAFVSACSCSSET
PGPPGPQGPPGPPGVKGEKGDHGLPGLQGHPGHQGIPGRVGLQGPKGMRGLEGTAGLPGPLAPGGSRAWQGPGAL
VESEDLQGPWGPQDCQGPKGNEERRASRSPLPPSTSL

6352/6881
FIGURE 5865

GGCACGAGGCTCTGTCGTGGCGCGGCTTCCCGCGGTCTTCTCTGCAAATGGGCTCCGTGGCCTAGCGCCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTCGCCGCCCAGATCCCACCAGCCAGCAAGCTAAAGC**A**
TGGCGGCCATCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCCTGGGTTCCACTTCCA
GCAACAGCTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTCGGGAAGTCCACCCTCCCGTTCATGGCCACGGTGTTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCTCCAGCAGCATGACCGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCAGTCCAGCACAGCCAGCGCTGGGCCCCCGTCC**TGA**CCTGAGCGGTTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCTCCCCGCCCCTCTCCCCACTCCGCATCCCTCGCCCCCCTCCCCACCTCCC
ACCCCCCACCCTGTAAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAACCAGTG
AGAGCCCCGCTCTCTACCGCCCGGCCCCAGCACTCGCTAGCTTTCCTGACACCTGGAACTGTGCACCTGGCACCA
AGCGGAAAATAAACTCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAA

6353/6881
FIGURE 5866

MAAIPSSGSLVATHDYYRRRLGSTSSNSSCSSTECPGEAIPHPPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSSMTACGLARDAPRKQPGGQSSTASAGPPS

6354/6881
FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCC**ATG**AGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTCAGCGGCGGCCACCCCGAGGCCACTCCTCTCCGTGTGATGTACACGGACCGGCCGC
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCCTGACCGACGACCGCCAGGCTTTCCGCCCGCCCACAC
GGGCAGAGCTGGCGCGGCACCGCGTGGTGGTCACCACCACCTCCCAGGCCCGTGAGCTCAGGGTGCCGGTCGGCT
TCTTCTCCCACATTCTCATCGATGAGGCGGCCCAGATGCTGGAGTGCGAGGCCCTCACCCCGCTGGCCTATGCCT
CGCACGGCACCCGCCTCGTGCTGGCGGGCGACCACATGCAGGTCACACCCCGGCTGTTCAGTGTGGCCAGGGCCC
GGGCGGCCGAGCACACGCTGCTGCACCGCCTCTTCCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGCGGCAGA
GCCGCCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTCAGCTTCATCTCGCGGCACTTCTACGTGG
CCAAGGGCAACCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCCAGACCGGGACATGTCCATGGCGTCCTGGCTGAATCTGGCTGAGATTGCGCAGGTCGTCGAGA
AGGTGCAGGAGGCCTACAACACCTGGCCCAGCTGCTGGGGCGGCCGCGAGCAGAGGTGCATCTGTGTCGTTTCCC
ACGGTGCCCAGGTCAGTGCACTGAGGCAGGAGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTCGGCAGTTTTG
AGATCCTGCCAGGGCGGCAGTTCCGGGTCGTGGTGCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCCTGAGTTCTTCACCGACGCCCGCGTGCTCAACACCGTCCTGACCCGCGCCCAGTCCCAGCTGG
TGGTAGTGGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGGAGCGGCACAGTGTCTGCCCCGAGGGCCTGTCCATGGAGCAGGTCGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGGAACTGGGAGGCTGCCCCAGAGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGACGGCCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCCAGCATCCC
GTGACATCACGGCAACCACAGCGCAGACGGAGGCTGCGGCAGCACCAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCGGGGCCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTCGGGGAGGACGGGCTGCTGGACACTGTCGCCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCCGGCTGCGCTACGGAAGCTGCTGCACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCG
TGCCAGAGACCTTCGAGCGGGCGTCAGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTCAGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGCTCCTTTCGGGAGACAAGGCGCCCGAGG
GGCGGCTTCGGGGCCGCGTGCTGGGCGTGCTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCCATCAATGGCTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGGTCCCCATCTACAGCCTCCGGAAGGGCCGGCTGCAGCGTGTGGGGCTTGAGAGGCTCACCGCCGAGGCCC
GGCACAGCCGGCTCTTCTGGGTCCAAATTGTCCTGTGGCGGCAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCCTGGAGTACAGCTTGAGGGTGCCCC
CGTCGGACCAGGCCACCATCACCAAGGTGCTGCAGAAATACCACACGGAGCTTGGCCGGGTTGCCGGCCGCCGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGGACCCCCAGGGCGCCTGCAACCTCGATGATGCCCTCAGTGTCC
GAGACCTGGGTCCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCAGGGACGGGGTGC
TGGACGTGGAGGCGCGAAGGCAGGGCGCTGCGTTCTATGCCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCCTCAGCCTCCTGCCTGGCCGGGACCGCCTGGCCATCTCCCTGTTCCTCACCATGGAGA
AGGCCAGTGGCCAGCTGAAGAGCCTGCGCTTTGCACCCTCCGTGGTCCAGTCTGACCGCCAGCTGTCCTACGAGG
AGGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCCGTGAGCTGCCGGCCCGCCTGGACTCCGTGGACGCCT
GCGTCGTGGCCGCGTGCTACTTCTCTCGGCTGCTGCGCCGGCACCGCCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCTGGGCTTCCGCGCGGCCCACATCATGGTGAAGGAGTACATGATTCAGTTTAATAGGC
TCGTGGCTGAGTTCCTGGTGGGCAGCGAGTGCACGCGGACGGTCACGCCTCTGCGGTGGCAGCCAGCACCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACCGGGTGCCCCTGTCACTGCACCTCGGCCACCACCTGC
ACGGCGGCGGGGGCAGTCCCCCCGACACGCGGCTGCACCTCCTGGCCTCCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCGCACCCAGGACTACGAACAGATGGTGGACTTGGTCACCACGGACGACATGCACCCATTCCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTCGGCGTTCGGCCGCTGCGCCCGGGGCCACCAGCAGCAGGGCGGCC
ACTACTCGCTGCAGGTGGACTGGTACACGTGGGCCACCTCGCCCATCCGCAGGTACCTGGACGTGGTGTTGCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCT
TCAGCCTCCAGCACGCACTTGCCCAGAGCTATCAGCGGCGGGCGCGCAGCCTGCACCTGGCCGTGCAGCTCAAGG

6355/6881
FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGAGACGCTGCCTGACCCCTGCCCCGTCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCCC
TGGCAGGCCGGCCGGGCCTGCGGCTCCTGTGGCGGCGCCGTGTCTACTCAGCGCAGGGATCCAGCCCGCCCCTGC
CACTGCCTGGCACTGTGCCGGACCCACACACCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCCAGCGGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCCTGGAGGTGGCCCGGGAGCTGGGCAGTGGGGACACCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCCTGGTACCGAGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCACGTGGAGCGGCCCGGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCCTGCGTGTGGGAACCATTCTGCGCCCTGGAGTCGGCCACCGGCGCGGTTGCCG
AGAATGACTCCGTCACACTTCAGCACCTGAGTGTCTCCTGGGAGGCGTCACGGACGCCGCAGGGGCAGCTGCAGG
GCGCCTTCCGCCTGGAGGCCGCCTTCCTCGAGGAGAACTGTGCCGACATCAACTTCAGCTGCTGCTACCTCTGCA
TCCGGCTCGAGGGGCTGCCGGCTCCCACGGCCAGCCCACGCCCTGGGCCCAGCAGCCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCCACGGGCAGACGCAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCCTGTTCACCGTTGAGCTGCTGCCCAAGCAGCTTCCTGATCTCCGCAAGGAGGAAGCCGTGCGTGGAC
TAGAGGAGGCGTCCCCGCTGGTCACCAGCATCGCACTGGGCCGGCCTGTCCCGCAGCCCCTCTGCAGAGTGATCC
CCAGCAGGTTCCTGGAGCGGCAGACCTACAACATCCCCGGAGGCCGCCACAAGCTGAACCCCAGCCAGAACGTGG
CGGTCAGGGAGGCTCTGGAGAAGCCTTTCACGGTCATTCAGGGCCCACCAGGTACAGGGAAGACGATCGTGGGCC
TCCACATCGTATTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGGAGGCCCCCCCGTGGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCCTCCAACAAGTCGGTGGATGTCCTGGCAGGACTGCTCCTGA
GAAGGATGGAGCTGAAGCCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTTCCCAGTGCCGCGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCCGGGAGGGGGAGGCCGAACCAGAGCCTCAGGAGCATCACCCTGCACC
ACCGGATCCGGCAGGCCCCCAACCCTTACTCGTCGGAAATCAAGGCCTTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGGTCTTGTGGGAGGCTCGGAAGTTCGAGCTGGACCGGCATG
AGGTCATCCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTTG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCCTCATCCCCCTGGTGCAGTTCCCACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGGTCTC
TGTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTTCC
CCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCCAGTGTCCTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTCATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAAGCAGCTGACCCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCCTCACGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCCC
TTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCCTCCATCACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTCACGCGGGCCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCCTCGTGC
CTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCC**TGA**AGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAAGTCCAGGGCCCCCCCACCCTCCCCACCACCCTCCGCCATCAGCCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCCTTGGGACCAGTG
CAAGGAAGTTCTGCTGTCCCTGGGAAGTCTCAGAACCAGGAAGGAAACCCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTCAGGTTTATTTTCTATTTAAATGAACTAAAAGCCA
GCATCCTGCCGGGCGTGGTGGCTCACGCCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTCGAGACCATCCTGGCCAACATGGTGAAACCCGTCTCCACTAAAAATACAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGACTCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTTAAAAAAAAAAAACAA
AACAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCAAGCTCAGGACAAGGAGGCCTCCCTGGGAGAGGG
GGCCTTTCTCCCACCATCACCGCCTGTGTCCTTCAGGGGCTGCTGGAGGGCAGCCCAAAGCCAGGGGCCCACCCC

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FIGURE 5867C

GCCCCACCCCACCCCACCCCACCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTCGGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCCGCTTCAGTGCGGCTCTGTCCCTGCTGCCGCCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCTACATTCCAATTTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

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FIGURE 5868

MSSSPSRSAADIYIREYFHSHVSGGHPEATPLRVMYTDRPLSQTDPVTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTTSQARELRVPVGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRLFSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAEIAQVVEKVQEAYNTWPSCWGGREQRCICVVSHGAQVSALRQELRRRDLGQVSVGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNTVLTRAQSQLVVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQGVAQRRRWPPRGTQAGAAGNWEAAPEPVGDLAEEQAAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVPGACAAGAAAAAGVESTEAEDAEADFWPWDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLLHAEPERYRHCSFVPETFERASAIPLDDASSGPIQVRGRLDCGMAFAG
DEVLVQLLSGDKAPEGRLRGRVLGVLKRKRHELAFVCRMDTWDPRIMVPINGSVTKIFVAELKDPSQVPIYSLRK
GRLQRVGLERLTAEARHSRLFWVQIVLWRQGFYYPLGIVREVLPEASTWEQGLRILGLEYSLRVPPSDQATITKV
LQKYHTELGRVAGRREDCRAFLTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGVLDVEARRQGA
AFYAPGREPVPMLPASLCQDVLSLLPGRDRLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAEEVIRQHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDEDGTLGFRAAHIMVKEYMIQFNRLVAEFLVGSE
CTRTVTPLRWQPAPRSQQLKALCEKHGDRVPLSLHLGHHLHGGGGSPPDTRLHLLASLWKQVQFAARTQDYEQMV
DLVTTDDMHPFLAPAGRDLRKALERSAFGRCARGHQQQGGHYSLQVDWYTWATSPIRRYLDVVLQRQILLALGHG
GSAYSARDIDGLCQAFSLQHALAQSYQRRARSLHLAVQLKAQPLDKLGFVVDVEAGSRCFRLLFPSNRETLPDPC
PVPYGSLQLAEHPHALAGRPGLRLLWRRRVYSAQGSSPPLPLPGTVPDPHTLAVETALWKQLLELVELQRWPEAA
ALIQEKGEASQRRELVQVQRSHCGHFLEVARELGSGDTLQVQLGTSLQHGFLVPSPQLWTVAPGFSLCLEHVERP
GDCFSGRVYRAPRDRYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEASRTPQGQLQGAFRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSLGPGLNVDPGTYTWVAHGQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPEEVLRPGTLFTVELLPKQLPDLRKEEAVRGLEEASPLVTSIALGRPVPQPLCRVIPSRFLERQTY
NIPGGRHKLNPSQNVAVREALEKPFTVIQGPPGTGKTIVGLHIVFWFHKSNQEQVQPGGPPRGEKRLGGPCILYC
GPSNKSVDVLAGLLLRRMELKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSCAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVVLLGDHKQLRPVVKNERLQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHERSLLVSTDEGNENSKANLEEVAEVVRITKQLTLGRTVEPQDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQGSEWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGLCLIGDHLLLRCCPLWRSLLDFCEAQQTLVPAGQVRVCRRPTMPS

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FIGURE 5869

<u>ATG</u>GACGAGGAGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTCGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCAGGAAGAGCAGCTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCGTGGGTCCGGA
TCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCGTTCTTCCTGGAGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCCTGCCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAAGATGGGC
TATGAGTTTGGCAAGGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTTGCCTCGA
GGGAAGTCGCTGGACCAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCAACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTCAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTC<u>TAG</u>

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FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAITEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVSLDELRPFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSLLLREAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTKMGYEFGKGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVFDFLNEKLQGQAPGALEAGAAPAGRRSKDMYHASKSAKRALSLRLFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

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FIGURE 5871A

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CGCTGCCGGTGCCGCACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGCCCGGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCCAGCAGCGCCGCGAATCGGGGAGCGGAGCCGCGGAGCCGGCGGGAGGGCGGGCGGGCGGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCCTATCGGAAGCTTGCCTTGAAATATCACCCC
GACAAGAACCCCGACAACCCGGAGGCCGCGGACAAGTTTAAGGAGATCAACAACGCGCACGCCATCCTCACGGAC
GCCACAAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGGAAGAGAAC
GTGAACACCTACTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTGCGGCCTCCTCACGTGCTGC
TACTGCTGCTGCTGTCTGTGCTGCTGCTTCAACTGCTGCTGCGGGAAGTGTAAGCCCAAGGCGCCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACACG
CCGATCGTCATACAGCCGGCATCCGCCACCGAGACCACCCAGCTCACAGCCGACTCCCACCCCAGCTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGGCGCCTGGCCACGCCAACCTTAGAATC
ATGAACTGTAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGCTGGGGCCCCTCCTGCCTCCAC
GCCCACCCAGCGTCGACCCTTGACCCACGAAGTGCGTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTCCCTTTTTTAATAGCATGTATGGGGTTCTGTTCCATGTCTGTGTTGTGGACATTCCGCGGCATGACC
GCGTGAACTGCACGGTGGAGCTGCCTCAGGGCTGTCGGTCAGGTTGGTCCAGTGAGGGGTGACTGCAGCCGGTCA
GGTGGGCGAGGAGAAGGGGGGGCTGCCCCTTTCCTACCTGTGCTTGAGGGGCCGGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGGCCTCGGGGTCTGGTCCACACTCTGTGCTCCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTCACCTGCCAGAAGAGAGGCGGGGCCGCGTCCTCCTGGCGTCACCGGCGTCACTGTCATTCCTTGGTGTCTG
TGCTGGGCATGGTTGGCTTGGGGGTCTGTGGTTTCCTGGGCCTTGTGGCAGGGTTTCTCCCGTGGGAGAATTTGG
TGTGGAAAGCATAGGAGGCCCCTTCCGAGGTTGACACCGTGTCCTCCGCGGTGTTTCTCGCCTGGTCGTCTCGTC
GTGTGGACGCTGCCGTTCTGGTTCTCGGAGGTGTGTCCTTCGCCGTGTTGGGGTTATTTGTCTGTGTTCCTGCAC
TTTTCCCGGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCCTT
CCAGCACACCTGTCCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCCAGCTACTGGGGACGGGGGCTCTCCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTTGCCCCGTCATCGATGATTCAGGCAGAGCCAGATTCGTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGGACCCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATTGTGGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCCTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCCGCACTCCGTAGCTCATGGGATGTGCTGGGCCTGCCTTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCCTGCTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAGGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGCTGGT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCCTGGGC
AGCTTTGTTTGTCCCACTTTTCTTTGTTTCTTCTCACTAAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCACTGTGATATTAAATTAGAAATAATTTATCAAAATCAGACCTCTCCTAAAAGAATAAGAAATTCATTGTTTG
GCCCATCCTGAAAGGTGAGGTGGCGAGACAGTGGGGTGCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTTCCGCAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGCCCTAGCTCAGCCCCACCAGGC
CCTCTGTTGGGCCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCATCAGAGTGGGCCCCT
TGCCAGGTGGCTTTTCAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCCATTCTCACGGTGGTGATTGTGATTAGACGACCCCCGGGAAGCCCAGACACTCGGGGCCTGGA
GTTCCTCCCCCTGCCTGACCTAGAAGCAGAACCGTTTTCAGCGCTCTGCCCTGTTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAAGATCCTCCCGGGTTTTATTTCTCTCTTTCTTGAGTGGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCCTGGGGCAGCTTCCGCGCCTCCCTGTCCACGTGCTAACAGATCAGGACGCCCCCAGCACCCCTGCC
TGCTTTTGCTGGTGGCAGTGACGGGACCCCGACTCCTCACTCTCGGGCCGCAGACAATGCTGTGAGCAAGTGTGG
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FIGURE 5871B

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CCATGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGCCCTCTGGGGTCGTGCTTTGAGGC
CCGTCCGGTTCACGAGGGGGTCCGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTTGTCTTCCTTTTGG
CTTTATTTTTAAACTGCTTTAGATATTACTGCTCAGTGTTTGTGAACTTTCCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAACTGGCATGCACACGTGCCCAGCAGGAAAAGCTTCGTCTTC
ACGTCGGCTGCTGCCATCCAGAAGAGGCCCTGGAGCCTCACGCCGTCGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCTCCCTTAGCTCTGACTCAGTGCATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCTTTCCCAGTATTCAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCCTGTGGAATTGGCAAAAGCTACATTTTTACTGTCCTTACCAGCAACAGTTTGCGTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATCACGCAGCAGGA
GTGTCATTCATGCTGCTGTCCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTTCCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGGTGCCCATC
CTGGGGGCTGTGTGTCATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCTTGAAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCACCTCCAGAAGGGGC
TGGGCCCGGGGTCCTGCAGGCGGCACCTTTTGGTAGAGTTTGTTTCCCTGGAAAATGGGGAAAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTGTCACTGGCGTCCTGGAATCCGACCGTGTTGGGGTGCAGGCGCTGTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAAT
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FIGURE 5872

MADQRQRSLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGSLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

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FIGURE 5873

CTACGGAGTGCATCGGACGTCGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCCTTTCCTTC
CTAGCCTTGGTCGTCGCCGCCACC**ATG**AACAAGAAGAAGAAACCGTTCCTAGGGATGCCCGCGCCCCTCGGCTAC
GTGCCGTGGCTGGGCCGGGGCGCCACTGGCTTCACCACGCGGTCAGACATTGGGCCCGCCCGTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCCAGGCAAGAGAACCGTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTCAGCGGAACCCACGCTATGAGAAGCTGACCCCTGTTCCTGACAGTTTCTTTGCCAAACATTTACAG
ACCGGAGAGAACCATACCTCAGTGGATCCCCGACAAACTCAATTTGGAGGTCTTAACACACCCTATCCAGGTGGA
CTAAACACTCCATACCGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGGCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGTCTGACTCCGTGAGTGGACAGACCGTC
GTTGACCCCAAAGGCTACCTGACGGATTTAAATTCCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGCGACTGCTCCTCAAGTCTGTTCGGGAGACGAACCCTCATCACCCGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTTGCAGCCTGGGGACACAGCCAAGGCCGTGGTAGCCCAAGCTGTCCGT
CATCTCCCACAGTCTGTCAGGATTTACATCAGAGCCGCAGAGCTGGAAACGGACATTCGTGCAAAGAAGCGGGTT
CTTCGGAAAGCCCTCGAGCATGTTCCAAACTCGGTTCGCTTGTGGAAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGCTGCCCCACCAGCGTGGAGCTCTGGCTTGCTCTGGCAAGG
CTGGAGACCTATGAAAATGCCCGCAAGGTCTTGAACAAGGCGCGGGAGAACATTCCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTCATGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATACC
TGGATGGAGGATGCTGACAGTTGTGTAGCCCACAATGCCCTGGAGTGTGCACGAGCCATCTACGCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCGCGTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCCAAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCCTGCAGCAAGGAGCATCCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCGGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCCACCGCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACTATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGGAAGCCTATAACCAGGGGTTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGCTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGCCATTTTGGAA
AAGTCTCGTCTGAAGAACCCAAAGAACCCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACCAAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTGCAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCCGGCCGCATCAAGAACACCTTC**TGA**

TTGAGCGGTTGCCATGGCCGGTCTCCGTGGGGCAGGGTTGGGCCGCATGTGGAAGGGCTCTGAGCTGTGTCCTCC
TTCATTAAAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 5874

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MNKKKKPFLGMPAPLGYVPWLGRGATGFTTRSDIGPARDANDPVDDRHAPPGKRTVGDQMKKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERPKIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTPVPDSFFAKHLQTGENHTSVDPRQTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIPTHGGDINDIKKARLLLKS
VRETNPHHPPAWIASARLEEVTGKLQVARNLIMKGTEMCPKSEDVWLEAARLQPGDTAKAVVAQAVRHLPQSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKAAVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIPTDRHIWITAAKLEEANGNTQMVEKIIDRAITSLRANGVEINREQWIQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTWMEDADSCVAHNALECARAIYAYALQVFPSKKSVWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLAAVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPKNPGLWLESVRLEYRAGLKNIANTLMAKALQECPNSGILWSEAIFLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFWSQRKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGTEEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF
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FIGURE 5875

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AAGTCCCGGCCCCTGGCTTTGGGGAAGTGCCGCCGAGGCGCCTGCGCACTGCGCCCCCGCGCCCCCTCCCCGACT
GTCGGGCCGGACCTTGGAGCGCGCGGGCCGGCGGCGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCCACCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGGCCCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGCTGCTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGGCAGGCCTCCCGGGAGAGCAAGCTGCAGCCCCTCCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCCGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTCGACGACGCGCAGCT
GCAGATCTACACGCTCATGCACCGGGACTCCTACCCCCGCTTCCTCAGCTCTCCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCCAGCAGCACAGACCCCGCCGCCTCCTACGGCCG
ACTCTGGGTTCCCTTCAGGTGTTGTTGTCGGCAGGGCTGTCAGGGCACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGCTGTGTCTCCTGGGTCTGCCCACCCGTGGCCAAGCAGGAACTCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCGCAGCTGGCTGGCCCAGTGC
TCCTGGCTGGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCCAGAATCAAACACAGAACCTCAGAACCAGATTTAG
GACCTCAGAATCCTGCACTCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTCATGAACTTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAAGTTTTCATATTTATCTCTATCCCTAACCCCCCAAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC
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FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCCACCGTGTTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGGCTTTCACAGAATTATTCCAGGGTTTAT
GTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGA
GAACTTCATCCTAAAGCATACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

6367/6881
FIGURE 5877

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GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGACCGCCTCAAGGTGTTTG
ACCGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT
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6368/6881
FIGURE 5878

GCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAACTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGTT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAATCAGAAATAAATTGCTTTTAAAGAAAAAAATAAAA

6369/6881
FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGGCAAAACAGGAGGCGTTTCCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCCACCCCCAGCCTGCCCGCGCCTCCCGCCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGCGGAGGGACGACCCGCCGGGGCTTTCCCGGGCGC
TGCTCTCCTCCTGCTGCCCCCTCGCTAGGACCCGGCGGACGCCTCGTCTGGTTTTCACGCCCTCTAGCCCCTACC
CCCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCCTCCCCTCCCGACTCTCTGCTCCT
TTCCCGCCCCAGAAGTTCAAGGGCCCCCGGCCTCCTGCGCTCCTGCCGCCGGGACCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCCGGGAAGATGGCGAGGAGGAGCCGCCACCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCCAAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCAAAGAAGACTGTTTCCTCCAGATTAGAGTGGAAGAAACTGGGTCGGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCTCTT
CTGCTCTGAGTGGAACTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACCAACAGCTCATACACAATGAATA
CAAAAACTGGAACTCTGCAATTTAATACTGTTTCCAAACTGGACACTGGAGAATATTCCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATTCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTTAAAGACTCCACTTTAGAGATACACCAAAGCCACCGTTGTTACACAAGTTATTAAACTATT
ATAAAACTCTGCTTTGTCCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTCATTTTAATTTTCA
TGACTACTAACTCACCTGAACTTGCTATTTTAAACAAATAGTTCTGTCGACACCTAAAATATAATCTGGCTTCTT
GTGTCTGGACTAAGTTAAAAGAATTAAAATACTTTGTAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5880

MARRSRHRLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYY
QQTLQGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGQNLEEDTVTLEVLVAPAVPSCEVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNSVGYRRC
PGKRMQVDDLNISGIIAAVVVVALVISVCGLGVCYAQRKGYFSKETSFQKSNSSSKATTMSENDFKHTKSFII

6371/6881
FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGCGCGGGGGCCCCGGGAGACGGCGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCACTCGCACAGCAGCGCACTCGGTGCCCCGCGCAGGGTCGCG**ATG**

CTGCCCGGTTTGGCACTGCTCCTGCTGGCCGCCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTCAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCCTGAACTGCAGATCACCAATGTGGTAGAAGCCAACCAACCAGTGACCATCCAGAACTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAGTGATGCC
CTTCTCGTTCCTGACAAGTGCAAATTCTTACACCAGGAGAGGATGGATGTTTGCGAAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGTCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCGCTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCCATTCTTTTACGGCGGATGTGGCGGC
AACCGGAACAACTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTTAAACTTCCTACAACAGCAGCCAGTACCCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCCAGGTCATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAACTTGCCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCCAGGAGAAAGTGGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGGAAGCCATGCTCAATGACCGCCGCCGCCTGGCCCTGGAGAACTAC
ATCACCGCTCTGCAGGCTGTTCCTCCTCGGCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCCTAAAGCATTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTCAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAAACTATTCAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTCTTTTGGGGCT
GACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCGCCCTGCTGCCGACCGAGGACTGACC
ACTCGACCAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATTCCGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTTCTTTGCAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTCATAGCGACAGTGATCGTCATCACCTTGGTGATGCTGAAGAAGAAA
CAGTACACATCCATTCATCATGGTGTGGTGGAGGTTGACGCCGCTGTCACCCCAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTTCTTTGAGCAGATGCAGAAC**TAG**ACCCCGCCACAGCA
GCCTCTGAAGTTGGACAGCAAAACCATTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAACCCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAACTTGA
ATTAATCCACACATCAGTAATGTATTCTATCTCTCTTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACTAGTGCATGAATAGATTCTCTCCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTCTTGTGGTTTGTGACCCAATTAAGTCCTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTCAGCTGCTTCTCTTGCCTAAGTATTCCTTTCCTGATCACTATGCAT
TTTAAAGTTAAACATTTTTAAGTATTTCAGATGCTTTAGAGAGATTTTTTTTCCATGACTGCATTTTACTGTACA
GATTGCTGCTTCTGCTATATTTGTGATATAGGAATTAAGAGGATACACACGTTTGTTTCTTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTTCTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTCATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTCTGCAGGATGATTGTACAGAATCATTGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATTAAATAAAATAACCCCGGGCAAGACTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGGAGAAGAGGCAGATTCAATTTTCTTTAACCAGTCTGAAGTTTCATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCCTTCTTTTAAGATGTGTC
TTCAATTTGTATAAAATGGTGTTTTCATGTAAATAAATACATTCTTGGAGGAGC

6372/6881
FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDSDPSGTKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEDDSDVWWGGADTDYADGSEDKV
VEVAEEEEVAEVEEEEADDDEDDEDGDEVEEEAEEPYEEATERTTSIATTTTTTTESVEEVVREVCSEQAETGPC
RAMISRWYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMAVCGSAMSQSLLKTTQEPLARDPVKLPTTAASTPDAV
DKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEEAERQAKNLPKADKKAVIQHFQEKVESLEQEAANER
QQLVETHMARVEAMLNDRRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKEQNYSDDVLANMISEPRISYGNDALMPSLTET
KTTVELLPVNGEFSLDDLQPWHSFGADSVPANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEF
RHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHHGVVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQMQN

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FIGURE 5883

GCATGCTTTTTTTTTTTTTCCGGTAGGTCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTTACAGCAGTGAGGGGGCCAC
GGCTCAAGAAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAAGACAATGGAGGGGCGATCTTCAAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCCTGCAAAAACATTG
TCATGGAGATGTTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTCACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTCACGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAGAAAGAATATTCTAGAGTGGGCAAAGGAGCTTTCCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTTGTTTGTGTGGAAGGCCCACAAAGTGCCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAAACTGGAAGAGAATTTTAATTCGCCATCGAGAAGACATTCCTTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCCATTTTTGAAGAAAAAGTGTTCAGTGTTAATGGAGCCAGGGGAAACCACATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTTCCAGATGTTCTTTGGTGTAGAAGGACAATG
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTTCCCACTTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTTCAAATTACAACCTTAAAATTGTTGTTAGATATTTCT
TCACATATCAGCTGCCCATTTTGAAAAAGAAATTATCCATAAAGGTAATGTTGGTGCTCCAATTTGCCAGCCATT
CCCAACCCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCCTTTCAGCCTCTGTT
GCAACTAACAACTCTCAGTGGCCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACTTTTACTTCCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACCACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTTGTTTAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEMEQAEAQLAELDLLASMFPGENELIVNDQLAVAELKDCIEKKT
MEGRSSKVYFTINMNLDVSDEKMAMFSLACILPFKYPAVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEEKVFSVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

6375/6881
FIGURE 5885

CGCGTGAACTGCTTCCTGCAGGCTGGCC**ATG**GCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCACTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTTGGTATGTTGTTCTGCAAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAAAATTCTGGGCTCTGGTATCAGTTCCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCCTTTTGATGGCATGATAACAGAAACTAAGGGAACAGTGTTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAAACTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCCT
TGAAGAAATGGGACACTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGT
AGTAGACGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACCAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGAT**TGA**AATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAAACATATTGTTACTGTC

6376/6881
FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEELLRIGLSVSEVIEGYEIACRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQYGNEVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPFDGMITETKGTVLIKTAEELMNFSKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDSVYLSEVGDTQVVVFKHEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAIPR
ALAENSGVKANEVISKLYAVHQEGNKNVGLDIEAEVPAVKDMLEAGILDTYLGKYWAIKLATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDDQND

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FIGURE 5887

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CCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCCGTCGTCGCCAG
AGCCCGATGACCTTTTTCTGCCGGCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGTGTCCT
CGTCCACCCCGAGTGACTGCCCGCCGGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTCGTCCTCGTCCAGCACCTCGTCGTCTACGTCGTCGGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCCTCCGCGAGGTCATGCCGTACGCACACGGCC
CTTCGGTGCGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTCACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTCGGCCTGCGGCG
GCCTGGCGCACTCCGCGCCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCAGCGCACGCCGCACATCACCCCG
CGGTGCACCACCCCATCCTGCCGCCCGCCGCCGCAGCGGCTGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTCGGTCGGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCGCGGCCGCCCCGCTGGGGGGCGGGGGCGGCGGCAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCTGCAGCATGTGCCAGGTGCCGCCGCCGCACCACCACGTGTCGGCTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAGCCGACTGGCGCCGGCGCGTTCTGGCGACAGGGGAGCCAGGGGCCGCGG
GGAAGCGAGGACTGGCCTGCGCTGGGCTCGGGAGCTCTGTCGCGAGGAGGGGCGCAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACCCAAGCAATGGGGGCGCCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTATGAAAAG
GTACCGCTGTGTGCATTCCTCACTAGAACTCATCCGACCCCCGACCACCACCTCCGGGAAAAGATTCTAAAAACT
TCTTTCCCTGAGAGCGTGGCCTGACTTGCAGACTCGGCTTGGGCAGCACTTCGGGGGGGGAGGGGGTGTTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACTGCAG
AAGCAACAGCCCGACCGCGCCCTCCAGGGTCGTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCTCTTAGAACTGTG
GCCGTTCCTCCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTCAGAGTAGAACCACTTGTGGATTGGAATAACCCAAAACTGCCGATTTCAGG
GGCGGGTGCATTGTAGTTATTATTTTAAAATAGAAACTACCCCACCGACTCATCTTTCCTTCTCTAAGCACAAAG
TGATTTGGTTATTTTGGTACCTGAGAACGTAACAGAATTAAAAGGCAGTTGCTGTGGAAACAGTTTGGGTTATTT
GGGGGTTCTGTTGGCTTTTTAAAATTTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGCGCAATG
CTAAGCTGTTTGCTCACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTATTTTTG
CCACGTTTAACACAAATGGTAAACTCCTCCACGTGCTTCCTGCGTTCCGTGCAAGCCGCCTCGGCGCTGCCTGCG
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCTTCCTCTGATCGCACCGCCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTTGTAAAAACAAAGTGCTAAATAATATTTATTACTTGTTTGGTTGCAAAAACGGAATAAAT
GACTGAGTGTTGAGATTTTAAATAAAATTTAAAGT
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6378/6881
FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSDCPPELSAELRGAMGSAGAHPGDKLGGSGF
KSSSSSTSSSTSSAAASSTKKDKKQMTEPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAAHHPAVHHPILPPA
AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHHVSAMGAGSLPRLTSDAK

6379/6881
FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTCGTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTCAGCATTGGGAATGGTACC
ACCTCCCGAAAATGTCAGAATGAATTCTGTTAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTCACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCCTGTGGATGACACCATTATTGGACCCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTCTTAGCCCCTAAAATTGAGAATGAATACGAAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCCTCAGAAACCTGGAGCCATGGACAACTTATTGTGTTCAAGTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAATGGAGTGAGCCTGTCTGTGAGCAAACAACCCATGACGAAACGGTCCCCTCCTGGAT
GGTGGCCGTCATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCTTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCCTAGGAATTCTCTTCCACAGCACCTGAAAGAGTTTTTGGGCCA
TCCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTCGGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCCAGACCCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGGCAAAAATACTCCATTTGGGAACTCACTGCCTTATAA
AGGCTTTCATGATGTTTTCAGAAGTTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTCGAGGCA
GGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAAATACA
AAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCCAGCTACTCGAGTGCCTGAGGCAGGAGAATTGCATGAA
CCCGGGAGGAGGAGGAGGAGGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCAACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTGCAGTACTTTGAATTTATTTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGCTCCATTAAAGTTTTACTCTGTGTTGC

6380/6881
FIGURE 5890

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GAATCACACTCAGGCAGTCTCTCTCCTTTCTGAACAGAGATGAGCCCTAAGATACCTGGAAGATTTTGTTTTTAA
CCTCACATTAAGGAAAGCACACATCACCTTGAAAGAGCTAAACTTGACGTCCTACAGAATTTCTCTAACTTAACA
TGTTGAGTCTCTGAGAGTGCAAAACTTGAAACAAGAGAAAGTGGCCTGCCTGGCATCCTCTGCTTATTGAATGGT
TTTATTTAATTCTCCTTTACATTGCCACCTTAACAATCCTTCCAGCTACGTATCTTAAAGGATGTGATGGAGAAG
TTATCAACTGGTGTTTTCAGACCTCAGTTGGATGAACCCATTCCACTGTATGAGGCAAAAGTTTCCATGGAAGCT
GTTCAGAAAAATCAAGGAAGAAAAAAGGTAGTGCACATCAGCGCCCTGGATCGCATACTTTCCAGAAGCGTCGCT
GAACCTGGCGACTGGACTCTGGCCGAGGACCTGGCAGAAGCGCCAGGGCAGGTCACCGCTGGGACAGTGGGCGT
TGACGGCCACCCGGGATCGCCGCTGCGGGCTGCGTCTCGCGGGCTGCCCACTGCGCATGCTCCGCTCGGAACCGG
CGGGGGCGGAGGCGGGGCCGCGTCGGGGGCGGGAGCTCGGCGAGGCGCCACGTCAGGGGCGGGCCCGGCGCGCGC
GGGAAGTCTCTGTAGGGCGGCCGGCTACCCTCAGCCGCCGCGCGTCATGGCCCTTTCGGTGCCCGGCTACTCACC
GGGTTTCCGAAAGCCGCCCGAGGTAGTGCGGCTCCGACGGAAAAGGGCCCGGAGCCGTGGAGCTGCCGCCTCCCC
GCCCCGTGAGCTGACGGAGCCGGCGGCCCGCCGAGCCGCCCTGGTGGCGGGGCTGCCTCTTCGCCCTTTCCCTGC
TGCGGGGGGCAGAGGCGGTGGCAGCGGCGGCGGCCCGGCCGCTGCTCGGAGGAACCCCTTCGCCCGCCTGGACAA
CCGACCGCGGGTCGCCGCGGAGCCCCCCGACGGGCCGGCCCGCGAGCAGCCGGAGGCCCCGGTCCCGTTTTTAGA
TTCTAATCAAGAAAATGATTTGCTATGGGAAGAGAAGTTTCCTGAAAGAACAACTGTTACTGAATTACCTCAGAC
TTCACATGTATCATTCTCCGAGCCTGATATTCCGTCCTCAAAAAGTACTGAGTTACCTGTGGACTGGAGTATTAA
AACGCGACTCCTTTTCACCTCTTCTCAACCCTTTACCTGGGCAGATCATTTGAAAGCACAGGAAGAAGCTCAAGG
TCTTGTCCAGCATTGTAGGGCAACAGAAGTTACTTTGCCTAAAAGTATACAGGATCCCAAACTCTCCTCTGAGCT
CCGTTGTACCTTCCAGCAGAGCCTTATCTATTGGCTCCACCCTGCTTTGTCTTGGCTACCACTGTTCCCTCGTAT
TGGAGCTGATAGAAAAATGGCTGGAAAGACAAGTCCTTGGTCAAATGATGCAACCCTGCAGCATGTTTTAATGAG
TGACTGGTCTGTGAGCTTTACTTCTCTATATAATTTGCTGAAGACAAAACTTTGCCCCTATTTCTACGTTTGTAC
CTATCAGTTTACTGTCCTGTTCCGAGCAGCAGGATTAGCTGGAAGTGACTTAATCACAGCTCTCATATCTCCAAC
AACTCGAGGTTTAAGAGAAGCTATGAGAAATGAAGGTATTGAATTTTCTCTGCCTTTAATAAAAGAAAGTGGCCA
TAAGAAGGAGACAGCATCTGGAACAAGCTTGGGATATGGGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
AAGTTTTTCCTGGCTGGAAGAGATGGGTGTGCAAGATAAAATTAAAAAGCCAGACATACTTTCTATCAAGCTGCG
TAAAGAGAAACATGAAGTACAAATGGATCACAGACCTGAATCTGTTGTGTTGGTAAAAGGAATCAACACCTTTAC
ATTGCTCAATTTTTTGATTAACTCTAAGAGTTTAGTTGCTACCTCAGGTCCACAGGCAGGACTTCCTCCAACCCT
CTTGTCCCCTGTTGCTTTCCGAGGTGCCACAATGCAAATGCTTAAGGCACGGAGTGTGAATGTGAAGACACAAGC
TCTTTCTGGATACAGAGACCAATTTAGTTTGGAGATTACAGGTCCTATCATGCCTCATTCTCTGCATTCACTGAC
CATGCTGCTCAAATCTTCACAGAGTGGATCTTTCTCTGCAGTACTGTATCCACACGAGCCAACTGCTGTATTTAA
CATCTGCCTGCAAATGGACAAAGTACTTGATATGGAGGTTGTTCATAAGGAGCTTACTAACTGTGGTTTGCACCC
TAACACTCTGGAGCAACTTAGTCAAATACCGTTACTTGGGAAATCATCTTTACGGAATGTGGTGCTGAGAGACTA
CATTTATAATTGGAGATCCTGAACACCAAAGTAAGCCTAAAAGGAATCTTTGAGGAAAAAGCCTTCTAGCAAGG
AAATTCAAGATTCTTGAAGTTGAAGGAATATACTGAAATGTTTATAAACATAACTTTTACTACAGTAGCATCTAA
GGTTTTAAATGTGTTTTACTATTTTCAGATTAGATTTTTAGATATAAAGATGAAAAACTCAGATAACTCAAATGA
GATATCTATATCCCTACAACCTAATTGTATATTGAGCAGAAACTGAATTAATATGCTTCCTTGCAAATGGGAAAT
CACATAGCAGTTACCCCATGGCATTGTGACTAATGGCATCAGGGCAAAAATATGTTACTTTACGATTTACCTGTT
AGCAGGTTCTTGTTTCATAAAGGTAGAAAATAAATACAGACAACATCTAAAAAAAAAAAAAAAAAAAAA
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6381/6881
FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFPAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPA
LSWLPLFPRIGADRKMAGKTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTTRGLREAMRNEGIEFSLPLIKESGHKKETASGTSLGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINTFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLLGKSSLRNVVLRDYIYNWRS

6382/6881
FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAG**ATG**GCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTTGCCAAGCTTGTGAGGCCTCCTGTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAGCAATACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGTCCATCGCGGAGAG
GTACCTTGCACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAAACTGTCCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTCAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAAGTGTTGGTTTTCTGCCATCAGTGAAAATTCTTAAACTTGGAGCAACAATAAAAAGCTTCCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAAA

6383/6881
FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPYVKRSIKVKSLNDITAKERFSPLTTNLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDPSILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV

6384/6881
FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTC
CGCGCGCCCCGTTCAGCC**ATG**TCGTCCGGCATCCATGTAGCGCTGGTGACTGGAGGCAACAAGGGCATCGGCTTG
GCCATCGTGCGCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAG
GCGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGC
ATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCCTGGACGTGCTGGTCAACAACGCGGGCATCGCC
TTCAAGGTTGCTGATCCCACACCCTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGA
GATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTC
AGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTG
GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGCACCAGAAGGAGGGCTGGCCCAGCAGCGCATAC
GGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAAACTGAGTGAGCAGAGGAAAGGGGAC
AAGATCCTCCTGAATGCCTGCTGCCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCA
GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTT
TCAGAGAAGAGAGTTGAACAGTGG**TGA**GCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCCTG
AGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAAATGATCTCTTATCAATTAGCA
CTCACTAATGTACTACTAATTGAGCAACCTACGCACTCAGTTGACTACGTAAATCTGTCAGGTCTTTTGTGATTT
CCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCT
TTATAAGTG

6385/6881
FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCRLFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

6386/6881
FIGURE 5896A

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CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTTGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTTCCCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACTTGTGATATTGTGAAGTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAAACCCTTAGTCT
GAAACTTTAGCACCAATCCCCCTTGCCCCCCATTGAAATACGTATTTTTAAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTCACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGTCTTTTCTTCATTCAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACC__ATG__GACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAATTCACGTGCTTCTGAGATAAATTTGAAGAAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTTCCAAAGAAAGATTTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTCGAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAGAAGGAAAGAGATTTCAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTCACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTCAGTTCTAGTTCACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGCAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACTATG
TTTTGGTCGTCTATGGACTTGCCATTTCTCTCCTTGGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAAAGTGT
ATTTGAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCTG
GAGTGTTAACTTGGCCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAATAG
AATTTCACATGAATTGCTGGAAGAAGTTAAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG
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FIGURE 5896B

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GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCCTCCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAAAGAAGCAAAAAAGTTAGCACAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAAACTGTAGACAATGTTC
AGCGTTGTCAGTTCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATAC
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGGAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTTCTAAATGAAGCAGTGGACTATGTTATTCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACTTTCTTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCCTCTGGAATGAGAAATATGGTCACAAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCCAGCAT
TGCATAGTGCTTTAGATGAATTCTTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAATATG
AGTTTTTCCCAGAAGAAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAAACCTTTTCTCTTGGGATGCCCTC
GTTTGTTGTGATTGACAACTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAAGGAAGAAGAAAA
ACATTAAAACAAAAGTAGAAGAAATTTCAAAAGCAGGGGAGTATGTACGAGTTAAACTACAACTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTCAGATTCATCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTCCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT
CCCATTTGGTCACAGGATACTGTACGTATCTTCCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGCCCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAAATTCTAACAACAAATGTGAAGTAATTCCAGAAAGCACCAGTGCAGTAACAAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTCACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAG
AAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCCTTCAAGATTTGGAAAGAGAAATTAAAAAATGGCAAC
AGGAAAAAAAAGAAATCCAAGAAAGACTAAAATCACTGAAGAAGAAAATTAAAAAGGTTTCAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAATGAAAATAGAAGAGTATATAAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTCATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAAAATGGTTCTCGGCTCAGTGAACTTTCTAAAGTGCAGATTTCTGAGCTTTCATTTCCTG
CCTGTAACACGGTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAAACCACGCAGCACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTCAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTCAGTGGTATTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA
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FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCCGTGACCAGGTCCTCCCAGGGCTCACCCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGG**TAGT**CACACTTCACTAAAGTGTCATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAAACAAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCCCCACGTTTGTTCCCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCCTGATATGCCTATATTTTTCCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACTATATTTTAATAATTTATAGTTAATGTTAAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCCACC
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACTGTAACTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCAACAT
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACTGTCAGAATAAAGAACATTCTAAAAT
GAG

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FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLFQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIKYAGDVTILTKLGSIDNCWPMLSIFFTEYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEFSKERFDIAIIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWALQANIKAQKLCKNDPEGIKDLIQQHVKLQKQIEDLQGRTANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSEGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVIIEESQPQKIKMLLEKFVEECKFPPVPDAICCYQKCHGYSKIQIYITDPDFKGFI
RISCCQYCKIEFHMNCWKKLKTTTFNDKIDKDFLQGICLTPDCEGVISKIIIFSSGGEVKCEFEHKVIKEKVPPR
PILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLNSFGLDATGTFFSRYGASLKLLDFSIMTFLWNEKYGHKLDSIEGKQLDYFSEPASLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMLVGSGTTSVTSNNEII
TSSEDHSNRNSDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKCSTLYDYFSQFLEEHGPLD
MSNKMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSSAPAFENVKPKPVSANSPKPACEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRNDEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEERQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLKRHLEENKISKTELDWFLQDLEREIKKWQQEKKEIQERLKSLKK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAAEVSVLENWKE
SEVYKLQIMESQAEAFLKKLGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGKDKRTYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESPSGRGWPSQNQELPSCSSR

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FIGURE 5898

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CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGGCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGCGGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTCCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTCAGAGTAACATTTATACATGATCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAA
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FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLQLARKREVRLLRRQTKTSLEVSLLEKYPCSKFIIAI
GNNAVAFLSSFVMNSGVWEEVGCAKLWNEWCRTTDTTHLSSTEAFCVFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVTDYKTSESTGSLPSPFLRALKTQNFKDSACCPLLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

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FIGURE 5900

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CGCGGCGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGGATGGGATCCGGCTCC
TCCAGCTACCGGCCCAAGGCCATCTACCTGGACATCGATGGACGCATTCAGAAGGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCCACCATGCCCGCGAATTCAGAACGCACTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTCGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCCTGGAGCAGCCCCGGAGGGAAGGAGCATTTGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACCAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAATCAC
TTGGCTGTCCTAGAGAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCCTGTAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACTTCCGGCACTGCTTCTGCGTGGCCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCG
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTCCTGTGGCACCGTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCCAGATTGGGTTCATCAAGTTTGTCCTGATCCCAATGTTTGAAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCCTGAGGAAAGCGGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCACAAGACCATGTTTT
CTAAGAACCATTTTGTTCACTGATACAAAAAAAAAAAAAAAA
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FIGURE 5901

MGSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRTTSRGQSAERPLRDRRVVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPPERE
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCKY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRWLF
CVHDNYRNNPFHNFRHCFCVAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDHPGYNNTYQINARTELAVRY
NDISPLENHHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMENFDYSNEEHM
TLLKMILIKCCDISNEVRPMEVAEPWVDCLLEEYFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIPMF
ETVTKLFPMVEEIMLQPLWESRDRYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

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FIGURE 5902

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CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCTCGCCGT
GGGTCCCCGCGAGGCCGCCACCCCGGGGTCGCCGTCTCCGCCTCGCCGCAGTCGGGGCAGCCGCTCGCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTCACGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCTTCTGAGACCCCCCAGGCAGAAGTGGGGCCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCCGGCCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTCGACTCCCCGGAGTCACACGTGGGGGTGGCCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCCTGGCTCACTACGACACCACCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCCTGGATGCAGGATCATTGGGGTGGATCCCGAAGGGTCCATCCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGCTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTCACCTTTGCCCGCATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGCTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCATTCTGCCCGACTCAGTGCGGAACTACATGACCAAGTTCCTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTCAGGAG
CTGGGCCTGTCAGCCCCGCTGACCGTGCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGGGTAATCCTGGGAATGGTGACGCTTGGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTCACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTCACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTGCGTGTTTGGGTTTTTTAATTGAGATGAAATTCAAATAACCTAAAAATCAATCACTTGAAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTCACGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCCTCCCGTCTTCCTCCTCCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAAATAGGTTTTCCCTGTTCTGGACATTTCATATAAATGGAATCACAC
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FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGCGTCGGCAGCAGTGTCGACGGCAGCGGCGGCGGCGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCGAGAAAGACAAAGTCAACTGTTCATTTTATTTCAAAATTGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCTCAAAACTCTTCCCAGTCTGCTGACGGTTTGCGCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGTCTGT
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTCAGTATGAGATGGGAGAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTCGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCGTGGCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTCGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACCAGTTCATAAGGGGAATTTTTTTTAAAAAACAACAAAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

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FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLNIYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRREEDAEKAVIDLNNRWFNGQPIHAELSPVTDF
REACCRQYEMGECTRGGFCNFMHLKPISRELRRELYGRRRKKHRSRSRSRERRSRSRDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

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FIGURE 5905

CGGAGCCGCCCGCTGAGGTCAGAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGCGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGGAGCCCGAGCGAGCGGCGGAGACCGTGCCCCCG
CCTCGGCCCCGCGCCGCCGCGGCCAGGCCCGGC**ATG**GAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAAA
GTGGTGCCGCTTGCAGACATTATCACGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCATCACCAGCTCCGAC
CTGCCCTCCCCGCAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCCAGGCCGGGGAAGGAGTGAGGCCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTG**TGA**GGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAAACTTGATATTTTTTTCTTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAA

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FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKGQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAELLSGRKIHSQEEALRVMDMLHSMGPDTVVITSSDLPSPQGSNYLIVLGSQRRRNPAGSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 5907

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GCGTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGCAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTC
CCAGCTCGTTCATGCTTTTCAGACCACGGAGGCGCAGCACCTGTTCCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCCTGAACGAGTCCTT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCCAGCAGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATTGCTGCCCGGACCAA
GGATTCCTTGGTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAACTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCCGTTCTCCAGTTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTGAAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAAGAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGCACCGC
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAG
GGCGGCACTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCCAGGAACTGGACCTTTCCCCAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTCGCTTCAGGTGTGTCCTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTCATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTCACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGCAGGCTGCGCACCTCTTTCCCTCAGCCAGGTCACCCTCAGCGTCCTCCCTGCCCCTCTCCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCCACC
TGCATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCGCATCTTCTGTTCCATGGGTGCCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTCGAGTGTCCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCCAAAGGAACTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTCAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAAACTCTGTTTC
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FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCCACCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCCTCAG
CGAGGGGCCGTGCACCCGCTCCTGAGCAGCGCC**ATG**GGCCTGCTGGCCTTCCTGAAGACCCAGTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCCTCAACTGCCGCCTCGCATACTCACTCTGGAGCCAACTGGTCATGCTG
CTGGAGTGGTGGTCCTGCACGGAGTGTACACTGTTCACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCCTCAACCACAACTTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCCTCGCTAAGAAGGAGCTGCTCTACGTGCCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTCGAAGGGCTGAGGCGCCTGTCGGAC
TACCCCGAGTACATGTGGTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACCGCGTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCCTGTCCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCCTCCGGGGGACAGTCGCAGCTGTCTATGATGTAACCCTGAACTTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCGGAGGCCGTGGACCCTCCTGAACTTCCTGTCCTGG
GCCACCATTCTCCTGTCTCCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCCTGATCCTG
ACTTTCTTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAAGGC
TCCAGCTACGGAAACCAAGAGTTTAAGAAAAAGGAA**TAA**TAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAAACTATTTTTCTTATTAACTG
GTGACTAATATTAACAAAACTTGAGCCAAGAGTAAAGAATTCAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCCTCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCCTTAAACTTAGATCAAATTTTAAAAA
AAAAAAAAAA

6401/6881
FIGURE 5909

MGLLAFLKTQFVLHLLVGFVFVVSGLVINFVQLCTLALWPVSKQLYRRLNCRLAYSLWSQLVMLLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEE
DRDTVVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVAAV
YDVTLNFRGNKNPSLLGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWTLLNFLSWATILLSPLFSFVLGVFASGSPLLILTFLGFVGAASFGVRRLIGVTEIEKGSSYGNQEFKKK
E

6402/6881
FIGURE 5910

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GCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTTGACCTTA
AAAACAACAAATCTGACACGCTGCCCCTGGCCACTCGGTACAACGTCAAGTGCGTGGGGCTGTCCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCCTTCTCCCCTGATGGCAGGAAGTTTGTTGTCACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCCTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCCGAGGGCTTGCGGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAACCTGACAG
CTGCAGCATTTCATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACCTCATCCACTCCCTGAGCATTTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTCAGGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGACTGGCGGGG
ACGACGGCAAGGTCAAGGTGTGGAACACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTCACAGGTACCGAAACTTCCGCACCTTCACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGTCCTGGCCA
GTGCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCTTCACCGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCGCGATACCACTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCGCTGCTGGG
CGGCCACCACCACGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAGCTGGACA
CCAGCGTCACCCCCGGGAGGGTGCGCGAGGCACTGCGCCAGCAGGACTTCACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACTGGTGCAGGAGGCCCTGGAGGCGGTGCCCAGGGGCGAGATTGAAGTGGTCACCTCCT
CCCTTCCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTAGCTTCCTCCTTTGAAGTGTCTCGCCACCTGGAAT
CTACCTCCTCTGGACTCACAAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCATTCAGTTCCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTCGAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGCTTTTCCTG
TGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTCACGCCAGGGGCCGGCACGCACTGGCACCTGGCCCC
AGGAGCGGGGCCGTGTGAACGGTGATGAATGTTGAAAATGCGTCTCAGAGAGGTATTCACATGAACTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAACTTAGGGATTAAAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA
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6403/6881
FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCCACCCCTCACTCCACCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCCAGCCCCACTGAGCTCTTAACCCTCCCCACCTGAGGGTTCCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCCGCCCCCGCCCCTCCCCGCCCCCGCGGGACACGCCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCGCTGTCCCAGGTGGGCCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCAGTCCTCCCCGGGGACCCTGAGCCTGGAAGCCCGGACCACTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCC**ATG**GCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTCACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCATCTGCTGCGGAAGTCTCCAGGTTCACACACA
GCACCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCCTGGATGCCCTCTTCCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTCGAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTGGAAAGTGGTTCTGA
CCCGGGACAACTGAAGCATGTGGTTGATGTCACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCTTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCCTCCCAGCTGGTACCTGTTCCAGTTCCA
CCGGTTCCTGCAGTACGCACGGCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTCGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTCGCATCTCGCTTCCTGGAGATGGAGCCAGTCACCATCCCAGATGTCCACGG
CGGATCCTTGCAGAATGCTGTCCGCGTGTGGAGCAACATCCCAGCCATAAGGAGCAGCAGGCACTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTTCAACAGAACTCACTTCCTCTTTA**TAA**AT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCCTAGAACAAAGGCAACTTTCCTC

6404/6881
FIGURE 5912

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYQSYCSICCSGETLLICGNPDCTRCYCFECVDSLVGPGTSGKVHAMSNWVCYLCLPSSR
SGLLQRRRKWRSQLKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVVDVT
DTVRKDVEEWGPFDLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHWALVSEEELSLLAQNKQSSKLAAKWPTKLVKNCFLPLREY
FKYFSTELTSSL

6405/6881
FIGURE 5913

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GCGACGCGGCGCAGGCGGCGGGAGTGCGAGCTGGGCCCGTGTTTCGGCCGCCGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGTCGGGCGCGGGCAAGGCCATCGGCGTCCTGACCAGCGGCGGCGACGCGCAAGGTCCCCTGAC
AAGCCCACCAGGCCCCCTGCTGAGATGGCTGTGACCCTGGGCTGACCCGCCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGCTGCCTGCCAGAGGCGTGGCACCTCACCTCACACCTGCTCCCTGCTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTCGAGAGTCCTCTCGTGGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCCAGCAGGAAACTGGCTTTGCCAAGGCCCCCGCTGGGACAGACTGTTTCT
TTCACTGCAGTCCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAG
TCTTCCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCTTTACCACCAGGGAGGGGC
GCCGGGCAGCGGCCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCGGCGGGGATGGCAGCCTTA
CAGGTGCCAACATCTTCCGCAGCGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCGGACCTACTCGCACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTGCGGCACCG
ACATGACCATCGGCACGGACTCGGCCCTCCACCGCATCATGGAGGTCATCGATGCCATCACCACCACTGCCCAGA
GCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCCT
CAGGGGCCGACTGGCTGTTCATCCCCGAGGCTCCACCCGAGGACGGCTGGGAGAACTTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGCTACGTGAAGGACCTGGTGGTTCAGAGGCTGGGCTTCGACACCCGTGTAACTGTGCTGGGCC
ACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGCTGCTGGAAGCCACGCCTGACACGCCGGCCTGCGTGGTCACCCTCTCGGGGAACCAGTCAGTGCGGCTGCCCC
TCATGGAGTGCGTGCAGATGACCAAGGAAGTGCAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCCAAGGAGAAGT
CTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGCCGTGCGCTCGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGTGGTCGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTCATCGTGGAGACCATGG
GGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCCGACGCCGCCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTCAGAGGGGCC
TGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTCGGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTCGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTCAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCCACGCCCCTCCCCAGCCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCCAGGGGACGTGGCGCTGTCGGTGTTTGGAG
GCTGCTGCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCCCACGTGCAGCACCTGTCACCTTTTCTAGAAATAAAATCACCCTGACTGTGGGGTGCATC
GGTCTCCGG
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6406/6881
FIGURE 5914

GTGGCACGGGCAGGGCCCAGTGCACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTCAGGCTGGATTGGACGTCTGGGTTCCCATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCT
CCCTTGAGCTGGATGCCGGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTTGTGTTGGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTCACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAA
GGGTCAGGTGCAAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGT
GGTCGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGTCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGC
TGTAAATGCCGCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTCATCGT
GGAGACCATGGGGGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGGCCGACGCCGCCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCCTGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCCTGTACAACCTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTCGGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTT
CAGCCCCGTCACTGAGCTCAAGAAAGACACTGATTTCGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTCAGGGGAGCTGGAGCACGT
GACCCGCCGCACCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCCACGCCCCTCCCCAGCCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCCAGGGGACGTGGCGCTGTC
GGTGTTTGGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCCTGGC
CCTGCCTCACTGTGACCTGCTCCTGCCCACGTGCAGCACCTGTCACCTTTTCTAGAAATAAAATCACCCTGACTG
TGGGGTGCATCGGTCTCCGG

6407/6881
FIGURE 5915

CCGCGCAGTCGTCACCCGCCCGGGATCAGGAGGCCGGGGGCGCCCGCCGGTCGGGCCTGGGCGGCCGC**ATG**AAGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCGCAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTTGCCAGGAGATGCCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCCACCGCTACCGCATGACCGTGCTGCGCACCCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGCACAGGCCACG
GCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGCG
AGGAGGAGGCAACCAGCGGCGCCCAGGATGAACGTGGCCTGAAGCCGCCTTCCCGGGGCCAGTTTCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCAGGAACGTCCTGACTGCCATCCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAGG
AGCACGCCGAG**TGA**CCGCAGGACCTGAACGCCGCTCCAGCCTCCACGGGGACCCCAGCGTCTTCCCCAGCCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCAGCCCCGGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCCTGTCCCCAGGA
CTCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCCTCCCTA
ATAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTCACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGAT
TTCTGTTGGGCAAGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCGCACCCATGGGAGAGAGTTTTGTTTTCTTGGCCGGGCTGGGCAGGTGCGCCTTCCTTTCTCTC
TCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTCGCCCTGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCCTTGGAGCATCTGAGAGGGGTTTTCTTTCCTCTGGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCTAGTGCCCCCCAAAAC
CAAGGAAGCATTCACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTCGCCGGACTTGGGGAAGCCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACCACTCGGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAAA
AAAAAAAAAAAAAA

6408/6881
FIGURE 5916

MKLTRKMVLTRAKASELHSVRKLNCWGSRLTDISICQEMPSLEVITLSVNSISTLEPVSRCQRLSELYLRRNRIP
SLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRTLPRLQKLDNQAVTEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPSLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQTVGSRLQALRGEEVQEHAE

6409/6881
FIGURE 5917

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCC**ATG**GCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTTCCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCCAAAGATGAGGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTG**TGA**GACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTCTCCCCCGGC
ACACTTAGTGACAGTGATGCTCTGTGCTGGTACCAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTT
TTTCAAACCTTTCCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTCGAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTCATGGCTTCCTGTGGATTCCCTCCCTCCCTGGAGTGTTGAGGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTTCTGGGTCCTTCCTGGTTCCCTGTGGGCCCCATGAGGAGTCCATTACTTCCTTTCTTCCTTCATATTT
TACAGGCAGATGCTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCGTGCCTGTAATCCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAGGTCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGCTAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAGAAAAAAGAAAT
TTATTGCTGATCACAAGGACAGACAGTTTTTTCCCGACCATACTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCATTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAAA
ATTTTTTTTTTTCAATCTAAAAACTGGAAATTCTAGGGTTTTTGTACATTTTGGATGCACTGGGAATTTATTAGC
ACAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCT
TATCCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCCTGGGCCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTCGCACACGGGCGGCATTTAAATAG
GAATTTCTATTTTTGAAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTCATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCTGGCTTCTGTGGACAGCAGATTCTTTTCCTTCTCACAAGGGGCTCATTTAAAATTTGGAGGCTGGGTG
CTGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTCAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAAGAGTCATTTGTGCAAGTAGACGGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAAGTATTTTTA
TTCATTTGTATTTATTAAATGAAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAACCTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

6410/6881
FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWEALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

6411/6881
FIGURE 5919

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AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGCGGGGCCGAGAGCGTGACTCGCCCGCTCCGCGCTGCTTCCCCCGCGCCGCCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAGGTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCCGGGCCGTCCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAAACTCGAGGACATTCACCACGATGATTTTCCTCTCTTT
GATGTACTTCAAGTGCAACTCAAAACTATATCTGCAGGGATGAATCTGTAACTTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTCAGGTAAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTTGTGTTTTCCCCCCCT
CCTACAACATTTTTTTAACCCCAAAATTATAGCCTGAATGTTCGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTTCCCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACTTGCTGTTACAGGCACAGGTGATTAAAATGCT
AAATATTGCAAATTTAAGCTTTGTCAGTATATGGAAAAGTTGAAGGGAAAATACTGGAATGCTTCTTCAAAGGTT
AAAAAATAACCGAGTCTTTTGGTAATTTGACCCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCCCTGCCACCCCTCCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATTCCCACATTTCTCATTTGGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTCAGTTCTGTGAAATATTTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAAATCTTGCTGAAATGTTCTCATTTCCTGTTTGCTGTATGGGCTCGGGTGGGATGTTTGTTGGC
TCTGTTGTGTTTATTCACCAATTTGTACATTATTTGTTGTCCTTTACTACTGTAAACAGTAAATATAGTTTGGT
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6412/6881
FIGURE 5920

MSEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESSLAGHSF

6413/6881
FIGURE 5921

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CTGAACCTCAGCCGCGCCGGGAGGCGAGCCCGTTGGCGAGGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTTGAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCGCGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGCTGCTCATCCCGGTGGCC
GCGGCGCAGGAGCCTCCCGGAGCTGCTTGTTCTCAGAACACAAACAAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTAAATTGAGCTCTGCACGCTGGGGAGTTTGTTGGGTGAACTTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCGACGCTTCCTGTGAGGTGCACGCTCCGCAGCCCAGCCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCCTCTCGTCTTGCAGACTGGTGACCTTCTATTCCCTGTTCATCTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCCTGACGGCACCCAGCGCTGTGGCTGTCATTCTCCCAGGGCAGAACCCTGCGTTTCTCTCTGTCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTTGACTTTTGTCATGAGGAGAACTGACCAGCCCTCATCATTCCC
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGCTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCCTAACCTCAATTGTATTAAATAGCATTGGGGAAT
AGCTAAACCTTTTTAAAAAAATTTATTGGATTTTCCTCCCTGCTTAAAAGATTTCACCAGAAAACCTTCATATAA
AAATTCAGGCCCTTTTTGGACAATTTTTAAAATTTGTATCTTTACTAGAACATGAGAATCTTTTTCCCTTGGAAG
CTTGAATTATAAATGTGGTGTTTGGCCTGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCCTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCCACGTTTCTGTAAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGCGGGGAAGTCACTGAAAAGTGC
TGCCTAAGGAAGTTTGGAAATAGTCCCCGTTCCAGATTGCCTTGAATTTTAAAACATTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTCACACTTCACAGTCATGAAAACTGAGAAGACTGTCTTC
AGCGTGAACTAAAGTTCACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTTGTATTTGTAGTAAAGTATTGCAGAGATTCCTAAGTATT
TTATAGCAGCCATCAAAATTGGACTTTGTATTGTTTATTCATAAAAGACACTTGGTAATAGACTTCAGTGAACTC
TGTATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGAAATACAGCGTAGTCAGCCCTTGCGCTCAGTGTAGAAACCCACGTCTGTAAGGTCGGTCTTCGTCCATCTGC
TTTTTTCTGAAATACACTAAGAGCAGCCACAAAACTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACCAGTTTCCAATAAAACGGTTTACTACCTGA
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6414/6881
FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLLIPVAAAQEPPGAACSQNTNKTCEECLKNVSCLWCNTNKACLDYPVTSVL
PPASLCKLSSARWGVCWVNFEALIITMSVVGGTLLLGIAICCCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

6415/6881
FIGURE 5923

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TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCCTCTCTCAGGAGTGCACGAAGTTCAAGGTCAGCAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTCACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCCACAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCCACAAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGCATTGGCTTCGGGTCCTTCGTGGACAAGACCGTGCTGCCGTTCGTGAACACGCACCCTG
ATAAGCTGCGAAACCCATGCCCCAACAAGGAGAAAGAGTGCCAGCCCCCGTTTGCCTTCAGGCACGTGCTGAAGC
TGACCAACAACTCCAACCAGTTTCAGACCGAGGTCGGGAAGCAGCTGATTTCCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAGGTCGCCGCCTGCCCGGAGGAAATCGGCTGGCGCAACGTCACGCGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCCATTTCGCGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTCACCTGGAGGACAACTTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAAACTCACCG
AGATCATCCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACTCATTAAGAATGCTT
ACAATAAACTCTCCTCCAGGGTCTTCCTGGATCACAACGCCCTCCCCGACACCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCAGCCCAGAGGTGACTGTGATGGCGTGCAGATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGCATCCAGGAGCAGTCGTTTGTCATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGCAGGTTCTTCCCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACTCCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCCTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCG
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGGCTCTGCTTCTGCG
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTTGAGTGTAGTGGTCGTGGCCGGTGCCGCTGCAACGTATGCGAGTGCCATTCAGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCCTCACCCTGTGGCAAGTACATCTCCTGCGCCGAGTGCCTGAAGTTCG
AAAAGGGCCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCCTGCAGCTGTCGAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCCAACATCGCCGCCATCGTCGGGGGCACCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCAGTGGAACAATGATAATCCCCTTTTCAAGAGCGCCACCACGA
CGGTCATGAACCCCAAGTTTGCTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCACAGTCTTTGCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTTCCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTTACATTTAAACTTGTCAGGGTATAAAATGACATCC
CATTAATTATATTGTTAATCAATCACGTGTATAGAAAAAAAATAAAACTTCAATACAGGCTGTCCATGG
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FIGURE 5924A

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AGCTCCAGCCGCACTGCCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCCGGGCCAACCTGCTGAACCTGAACTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCTGCCTGTGCAGCCCACAGCAGATACCACCACACACGTGACCCCCCGGAAT
GGTTCCACAGAGCCAGCGACAGCCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCACTTCTGCCGAGAGCCCGGACGCGCCAGAGGAGAACATTGCCGGTGTCGGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCCTGGAGACTCCTGTGGGCCCCCTTGCCCTCGCTGGGCCTTCCAGCACCCCCCAGGAGAATGGGACCACTCTC
TGGCCCAGCCGTGGCATTCCTAGCTCTCCGGGCGCCCACACAACCGAGGCTGGCACCTTGCCTGCACCCACCCCA
TCGCCTCCCTCCCTGGGCAGGCCCTGGGCACCACTCACGGGGCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCCCAGCAGGTCACCCAGACGGATGACCCCGAC
GTCGGGCTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCGGTACCACTTCCCCAGCCTCTTC
TTCCGTGACTTCTCACTGCTGTTCCACATCCGGCCAGCCACAGAGGGCCCAGGGGTGCTGTTCGCCATCACGGAC
TCGGCGCAGGCCATGGTCTTGCTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCCTTCGTCGGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCCAGAGAATGCCGCTT
GCTCGGTCCTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGGAGCGGACCCT
GACAAGTTCCAGGGGGTGATCGCTGAGCTGAAGGTGCGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCGGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCCGTCACCACGCCACCCTTGGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCCGCGTGAAAGAGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGGCGATCTGGAG
GCCCTGCGGGGTCCTCGAGGCTTCCCTGGACCTCCCGGACCCCCCGGTGTCCCAGGCCTGCCCGGCGAGCCAGGC
CGCTTTGGGGTGAACAGCTCCGACGTCCCAGGACCCGCCGGCCTTCCTGGTGTGCCTGGGCGCGAGGGTCCCCCC
GGGTTTCCTGGCCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCCTGCTGGTGCTCGTGGGGAG
AGCGGCCTGGCAGGAGCCCCCGGACCTGCTGGACCACCAGGCCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGGCCTGCCGGGACTTAAGGGGGATCCTGGCGTGCCTGGGCTGCCGGGGGCGAAGGGAGAAGTT
GGAGCAGATGGAGTCCCCGGGTTCCCCGGCCTCCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCCTCCCTGGCCCCCCC
GGACCCCCGGGACCTGTGGTCTACGTGTCGGAGCAGGACGGATCCGTCCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTCGCAGGCTTTCCCGGACCTGCAGGACCCAAGGGCAACCTGGGCTCTAAGGGCGAACGAGGCTCCCCG
GGACCCAAGGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCCGGGTCCATACGGACGGCCGGGGTACAAGGGAGAGATTGG
CTTTCCTGGACGGCCGGGTCGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTTGGCATGAGGGGAATGCCCGGCCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGCTGAGTCCAGCCGCCCCGGGCCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAGTGGGCCCCCCCGGACCACCAGGGCAGTTTCCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGGAGAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGGAGCCCGGGGGCGGCGG
TTTCTTCGGCTCCAGCCTGCCCGGCCCCCCCGGCCCCCCAGGCCCCCCAGGCCCACGTGGCTACCCTGGGATTCC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCCAGGCCCCCCAGGGCCCCCTTCATTTCCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCCGGCCCTCCGGGCCCCCCTGGGCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCCCGAGGGCTGGCTCATCTTCGTGGCCGA
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6417/6881
FIGURE 5924B

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GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGGTTCCGGAAGGTCCAGCTGGAGGCCCGGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGCAGCCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGCACCACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGCTCCACCTGGTTGCGCTCAACAGCCCCCTGTCAGGCGGCATGCGGGG
CATCCGCGGGGCCGACTTCCAGTGCTTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCCTGAGGCACCCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGCTGCTGGGGGGGCAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCTACATCGTGCTCTGCATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGGCGGCTCGGAGGA
AGCCCCCACCGTGGGCAGGGAGCGGCCGGCCAGCCCCTGGCCCCAGGACCTGGCTGCCATACTTTCCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAAGTTTAAAACAGAAGCC
TGATGCTGACATTCACCTGCCCCAACTCTCCCCTGACCTGTGAGCCCAGCTGGGTCAGGCAGGGTGCAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTTCTCCAGGATTTCCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCCT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCCTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCATCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCCTCTGTCAGTCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTCGTTCTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAATAAAAGTGACCTTTTACACTG
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6418/6881
FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTCATTCGGAGGTCACGAACGAGATCACGCCGGTGCTGTCGTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCCTGCTCACCGACTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGCTCAGCTTCGTGTCGGTGTG
GCTGCTGCTGCTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCCTCCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTCACCAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCCTCACCTTCAGCGTGGTCCTCGCCCTCTTCCTGAAGCGCCCCAA
GCGCAGCCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

FIGURE 5926A

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CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCGGCCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCCCGTGCTCTGCTGCCCCTGCTGCTGCAGGCCTGCTGGACAGC
CGCGCAGGATGAGCCGGAGACCCCGAGGGCCGTGGCCTTCCAGGACTGCCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCCTTCACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAAGCAGCGTGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAGAGCCGCGACGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
GGAGCAAGTGTGCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCCGGGTTTGACGGCATTCAAGGACCCCCTGGCCCCAAGGGGAGACCCCGGTGCCTTTGG
ACTGAAAGGAGAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCCGGAGAGAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGGACCCCAGGCACGCGGGGACCAAGAGG
AGACCCTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAAGAGAAGGCCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGGACCCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGACGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGGTCCCGAGGGCCCCCAGGGACCCCCAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGCGGCCCCATCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTCGTCAAGGTCATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCGTACGCGGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCAGCTGCTGCCGCCCAG
CCCGAACAACCGCATCGCCCTGGTCATCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCCAGGCTCAGACCA
GCTCAATGTCATTTCTTGCCAAGGCCTGGCACCATCCCAGGGCCGGCCCGGCCTCTCGCTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTCACCGCCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCCTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCCAGAGCGGGCGTCGCTGCAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTCGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCGCTGCCATCGAGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTCGTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCCTGGTCACCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCCACCCTGCACGCCGGCACCAAACCCTGTCCTCCCACCCC
TCCCCACTCATCACTAAACAGAGTAAAATGTGATGCGAATTTTCCCGACCAACCTGATTCGCTAGATTTTTTTTA
AGGAAAAGCTTGGAAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGCAGGGTCCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTCACCTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACCTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACCTGGGTTCCCCACCC
CGGGCTCTCCTGCCCTGCCCTCCTGCCCGCCCTCCCTCCTGCCTGCGCAGCTCCTTCCCTAGGCACCTCTGTGCT
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6420/6881
FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTGGGAAACCAAGGTCAGGAGGCCGTTGCAGACATAAATCTCGGCGACT
CGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCCCTTGGTGCCACAGAGGG
CTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAATAGTGATGTGTTCGACGTTTTATCAAAGGCCC
CCTTTCTATGTTCATGTTAGTTTTGCTCCTTCTGTGTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCCAA
ATAAAGGTTTTCACTCCTC

6421/6881
FIGURE 5927

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TGCTGTGGAAACTCTTCTGGGGCCCCGGGGGGACTACCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCCACGGCAGGGTCGGGGCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTCATCGCTGGGTCCTGCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCCGATGACCCTGCCACCCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTCGTC
ATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACACTGGAGAAGAACTTCGTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGACAGGTCAGCGGGGCAGGGGCGGGTGCAGCATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGCCTCTGCATGGCTGG
GGATGCCCCAGACCCCGAGGCCTCTGGCAACGACCTCACGCGTGCGGCTTGCAGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTCGAGCTTCAAGG
AGGCTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGCGGTGGTCATCACGGACGGGCGCCACGACCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGCGACGTCACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTCGCTGAGAAGTTCATCGATGACATGGAGGACGTCCTCTGCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTCGGCCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTCGGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTCGCTAGGGACTGACCCTGGCCTGGCC
CGGCCTCTCTCCTCTCTTCCAGACCCTCAGATCGTGTGCCCAGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCCAGACTAGCAAAGCAGCCCTGGTGTCCTTCCTCCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGGCGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGGAGGAGGGGCTTGGGGAAGGCAGGCTCCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCCACCATGGGCCTTGCAGTCTCCCTCAGCT
GCCGCCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTCAGTGAGTGAAACCATCC
CGGGGTGGAAGCACTGACACCCCCCAGCACCAGCAGGTCTTGCTCCAACCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGGATGTGGCCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGCCGTCCAGGCTCTGCTGGACGTGGTGCTGCCCCCATGGTGCACTGCTGCACCGTACCTGGGCCCACAGGAG
GTCCCCGGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCCCTCCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCCTCAGCACGCGGGTCGCGGTGTGCGTTCGGGCGTTCCATGGGGAG
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6422/6881
FIGURE 5928

GCAGTGAAAATGTTATTAGTTTTGAGGGGGGTTTGGGAAGCCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCCTAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTCACCCTGCTGTGTTCAGAGCTTTGCTCACTGCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTCAGGGTCCTCTGTGTGCATTCCTGGGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTTGGGCTGAGAAGCAGACACCCTTGGGGAAACTGGCTCTGTCCCTCCCCTCCCCCATCCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCCTGTCCTGTGGTCTCTGGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTTGTGGCTATGGCCAGGCCCCCAAGCTGTCCCCGATGCCC
AGGGCTGGTGACCACCCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCCTGTGCCCACTGCTCCCCACCATGGCCAATCAGAAGAGTCAGGGGCTCCTGGTCT
TTCCGGGAGGGACGTGGCCCAGCCAGCTCTAGGTGTTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTCAGGC
TGGGGGTGTCAGAGCCAGGGTCCTCCTTAAGTACCTCCCACACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGCCCCTTCCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCCTGTGTCAGGGTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCGGTCCTGCCC
ACCTCCCCTCCGCCCAGCCCGCACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGGCCCGTG
GACATCGTCTTCCTGCTGGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAAGGCCCGGCGCTTCGTGGAG
CAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCCTCTCAACGCACGCGTGGCGCTGCTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATCGTGCGCAGCCCG
CGTGGCGGGGCCCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCTCACGGACGGCGTCACGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAA
CCCGGCTTCTTCGACCGCTTCATCCGCTGGATCTGCTAGCGCCGCCGCCCGGGCCCCGCAGTCGAGGGTCGTGAG
CCCACCCCGTCCATGGTGCTAAGCGGGCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCAGCCCCAGGTCTCCCCAGGC
CCTCCGCAGGCTGCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

6423/6881
FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGCCCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCTCACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

6424/6881
FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCTCACGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCCAC
CCCGTCCATGGTGCTAAGCGGGCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

FIGURE 5931

CCCTTGCCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTTACTATTAACAAACAC
ATAGTCTGTGGCCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGGCCCCTACAAGACCGAGCCCGCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGCCGGCAGACGTGGACCCTACCTGCAGGACGAGCGCGCCGGCCGCGAGCAGACCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGG
CCCACTTTTCCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCACGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTCAGTGCAGCTCCCTGACGGTGGCTGGGGCCTGCACATTGAGGATAAGTCCAC
CGTGTTTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTCTTCACAAGAAAGGTGGTGCTGTGGCCATCCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCCT
GAATGTTTACAGCTGGGAAGGCCTCAATACCCTGTTCCCAGAGATGTGGCTGTTTCCTGACTGGGCACCGGCACA
CCCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGAGCACCACCACAGTGCCCACCTGCGGCAGCGGGCCGTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTCACCAAGAGCATCAGCATCGGCCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCCCGCCTCCACTGCCTTCCAGGAGCATGTGTCTCCAGAATCCCGGACTATCTCTGGATGGGCCTTGACGG
CATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTCGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACCACAGGCCCGAGTTTTCGTCCTGCCTGCAGAAGGCTCATGAGTTCCTGAGGCTCTCACAGGTCCCAGA
TAACCCTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTCAGTACGCTGGACTGCGG
CTGGATCGTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTGTCCCCATGTCAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTCGGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTCACCTACGGCACCTGGTTTGGCCTGGAGGCCTTCGCCTGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCCTGCTGTCCCGGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCCTGCGAGGAGCGGCGTTATTGCAGAGTGCCCAGTCCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCGGCATCCTGACATCGAGGCCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCTG
TGCCATCTCCTACACGAGCTACAGGAACATCTTCCCCATCTGGGCCCTCGGCCGCTTCTCCCAGCTGTACCCTGA
GAGAGCCCTTGCTGGCCACCCC**TGA**AACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCCTGGCCGGGTTGGGGGAGCCCTCCCATAACCCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTCGGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCCTTAGTGTCGAGTGGGCTCTGGGCTGGGGTCGGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCCAGTGCGGGGGGTTGCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCCTGGGTC
GTGAGCTTGCCTGCGTATGGGGTGGTGTCATGGAGCCTCATGCCCCTGGGTCGTGAGCTCGCCTGAGTATGGGGT
GGTGTCATGGAGCCGCATACCCCTGGGTTGTGAGCTCGCCTGCATATGCAGGGTCTGTCATGGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

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FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTAFE
GALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYLQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

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FIGURE 5933A

GTAATACTTAATTACCTTCTAATAATTGGAGCAGAAG**ATG**AACCCAACTAATCCTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTCGATTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCCTCTTCAGTGCAAACATTAGGGTTCACCCAAACCTCAAGTGTTGGACCCTTTTCTGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTCATCTGTGCTGGGAAACACAGGATTTAGTTTTAA
ATCACCCACCAGTGTTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACTCTGG
TTTTGGGAAAACAGAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATTGCTTCTGGGTTTTTTACATTTTCCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCCTTTCTCTTTTCCTCAAGTAACAAGTAGTTCAGCTACCACTTCAAATTTTACCTTTTCAAAACCTGT
TAGTAGTAATAATTCATTATCTGCCTTTACCCCTGCTTTGTCAAACCAAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTCAGGCAGGGGTGTGAAGAAGCTGTTTCCCAGGTGGAACCACTTCCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTCGGA
TCCTCTGTCCCGGGGCGATCATCCTCCAGACAAACGACCTGTCCGCCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAAGCAATAAGGAAGTAGGTCGTCTGGGCAACAAGGAGGCCAAAAAGGA
AACTGGCTTTGTTGAGTCTGCAGAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCCTGGCACCTTC
CCGGATTCCAGGTGTGAATAAAGAGGAAGAAACTGAAAGTAGAGAGAAGAAAGAAGATTCTCTAAGAGGAACTCC
GGCGCGTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTCTGGAGAACCATTTTGGCAAAATTGCTAAAGTGCA
GCGCATCTTTACCAGGCGCAGCAAAAAGCTTGCAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTGCATAAAGACATGGCTATCTTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCGAGCACAGAGGATGCACCCTTTCAGCACTC
TCCTCTTGGCAAGGCCGCAGGGAGGACTGGTGCTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCCACCAATTCGAGGGAGACTCTTTTGACTCAGCCTCCGAGGGCTCCGAGGGCCTCGGGCCATG
TGTGCTCTCCCTCAGTACCCTGATAGGCACTGTGGCTGAGACATCCAAGGAGAAGTACCGCCTGCTTGACCAGAG
AGACAGGATCATGCGGCAAGCTCGGGTGAAGAGAACCGATCTGGACAAAGCGAGGACTTTTGTTGGCACCTGCCT
GGATATGTGTCCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTCGAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGCAGCAGCTGTGAAAGAGTACAGTCGGTCCTCGGCGGATCAGGAGGAGCCCCTGCC
CCACGAGCTGCGGCCCTTGCCAGTGCTCAGCAGGACCATGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGCAGCCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCGTGGCATACGGAAGGATATCACGCAGCAGCA
CCTCTGTGACCCCCTGACGGTGTCCCTGATTGAGAAGTGCACCCGGTTTCACATCCACTGTGCCCACTTCATGTG
TGAGGAGCCCATGTCCTCCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCCTGCAGAGCCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCCAGGGCTACAATGTTCTGCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCCATCCTGCTGTTAGAAACTCATCTGAGGTGAA
ATTTGCTGTTCAGGCTTTTGCTGCATTGAACAGTAATAATTTTGTGAGATTTTTCAAACTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCCTGGATGGTGTGGTGCGCATGCTGCTGTTCAGAGACTG
TGAAGAGGCCACCGACTTCCTCACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGGTCTGC
ATTCCTGGAACCAGAGGGATTATCCAAGACCAGGAAGTCGGTGTTTATTACTAGGAAGCTGACGGTGTCAGTCGG
GGAAATTGTGAACGGAGGGCCATTGCCCCCCGTCCCTCGTCACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGGAGCTGCCCGTCAGCACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGGATGCACCCCTGTCCAGTCTCCCACAGTCTCTACCAGCCCCTGCGCC
CTCACCAGTGCCTCTGCCTCCTGTCCTGGCACTGACCCCGTCTGTGGCGCCCAGCCTCTTCCAGCTGTCTGTGCA
GCCTGAACCACCGCCTCCAGAGCCCGTGCCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTCTGCGGGTGCTGCCTACGCAGCTGCCGCCCTGGGTGT
TTCTAATGCTGCTATGGAGGATTTGTTAACAGCTGCAACCACGGGCATTTTGAGGCACATTGCAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTTAAGTGAGCTGAGCCAGGGGCCTGGCCGTGGAGCTGATGGAACGCGTGATGATGGAGTTTGTGAGGGAAAC

6428/6881
FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGACTTGTTTCTCGTGGAGGAAATCTTCCAGACTGCAAAGGAGACCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTCACAGCCCGCAAGAAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGCTGAGGGCGCTGGCGCCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGCACCAGGTTAAG
GCGGCTCAGAAACAAGACAGCTCACCAGATGAAGGTTCAGCACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACCTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTTGCCGGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAAGTCAA
GTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTCAGACGCTTTCGCTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTTAACGTGTGTATAAAGGTGGCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTCGGCCTTGCTGCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCCTCTGGTGGTTCTTGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGGTCTGATGCTACAGGACTTGGTTTCAGCTAAGCTGATTTCAGATTACACTGTTACCGAGATCCC
TGATACCATTAATGATCTACAAGGTTCAACTAAGGTTTTGCAAGCAGTGCAGTGGCTGGTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTCAGTACGTCGAAGACGGGATTGGCCATGAGTTTAGTGGCCGCTT
TTTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGCTTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTAA
CAGTGTGCTGCAGTTCCTGGCTTCTGTGGTGTCCTCTGAACAGCTGTGTGACCTGTCCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCCTCACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTTGTCCAGTACGCCTCCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCCTCCAGTCCCAGGTGGAGAACCT
GCTCCACAGAACCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCCTCGGTCATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCCCGGCTTCCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTGTATTTTTTTAAAAAACGATTTGAAAAAATATGATGT
TCCTTTGTCGTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGAGGGACGTTTGGCAATAAA
GCCTTTTCATCCTTCTGCAAACAATTTTCCCATACCATTGCTTCACATGCACCGTAACTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGGCGCA
GTGTTTGTCGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGGTTGTC
TGAAGACTCAGGAGCATTTACGGATTTAACTTCCCTTCCCCTCTATCTTCCTCAGACTCTAGTGTCTCTTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACTACTAGCCCACAGAGTGACATGATGAGGGAGCAACTGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTCTGCGCTGCTAGACATGGTGGACATTTGAGCAGCCTGACCTGTGGGGAG
GGGGTCTCTCCCGAAGAGTTTCTGTTTTTACTCAAAATAATGTTATTCTCAGATGCTTGATGCACTGTTGGAAAT
GTGATTAATTTAATCATGCAGATAAACCATTTAAATGTC

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FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLPSKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFPSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSHPISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEPFQASKAGVRQGCEEAVSQVEPLPSLMKGLKRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTPARQSNRSESTDSLGGLSPSEVTAIQCKNIPDYLNDRT
ILENHFGKIAKVQRIFTRRSKKLAVVHFFDHASAALARKKGKSLHKDMAIFWHRKKISPNKKPFSLKEKKPGDGE
VSPSTEDAPFQHSPLGKAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA
ETSKEKYRLLDQRDRIMRQARVKRTDLDKARTFVGTCLDMCPEKERYMRETRSQLSVFEVVPGTDQVDHAAAVKE
YSRSSADQEEPLPHELRPLPVLSRTMDYLVTQIMDQKEGSLRDWYDFVWNRTRGIRKDITQQHLCDPLTVSLIEK
CTRFHIHCAHFMCEEPMSSFDAKINNENMTKCLQSLKEMYQDLRNKGVFCASEAEFQGYNVLLSLNKGDILREVQ
QFHPAVRNSSEVKFAVQAFAALNSNNFVRFFKLVQSASYLNACLLHCYFSQIRKDALRALNFAYTVSTQRSTIFP
LDGVVRMLLFRDCEEATDFLTCHGLTVSDGCVELNRSAFLEPEGLSKTRKSVFITRKLTVSVGEIVNGGPLPPVP
RHTPVCSFNSQNKYIGESLAAELPVSTQRPGSDTVGGGRGEECGVEPDAPLSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPPEPVPMYSDEDLAQVVDELIQEALQRDCEEVGSAGAAYAAAALGVSNAAMEDLLTAA
TTGILRHIAAEEVSKERERREQERQRAEEERLKQERELVLSELSQGLAVELMERVMMEFVRETCSQELKNAVETD
QRVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAFPAAPCCVDVSDR
LRALAPSAECPIAEENLARGLLDLGHAGRLGISCTRLRRLRNKTAHQMKVQHFYQQLLSDVAWASLDLPSLVAEH
LPGRQEHVFWKLVLVLPDVEEQSPESCGRILANWLKVKFMGDEGSVDDTSSDAGGIQTLSLFNSLSSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDLLGASGLMLLLPPKMKSEDMAEEDVYWLSALLQLKQLLQAKPFQPALPLVV
LVPSPGGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLQGSTKVLQAVQWLVSHCPHSLDLCCQTLIQY
VEDGIGHEFSGRFFHDRRERRLGGLASQEPGAIIELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLLPHL
HWNAPEHLAWLKQAVLGFQLPQMDLPPLGAPWLPVCSMVVQYASQIPSSRQTQPVLQSQVENLLHRTYCRWKSKS
PSPVHGAGPSVMEIPWDDLIALCINHKLRDWTPPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTQ
KELQLREGRLAIKPFHPSANNFPIPLLHMHRNWKRSTECAQEGRIPSTEDLMRGASAEELLAQCLSSSLLLEKEE
NKRFEDQLQQWLSEDSGAFTDLTSLPLYLPQTLVSLSHTIEPVMKTSVTTSPQSDMMREQLQLSEATGTCLGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

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FIGURE 5935

TGCCGCCCAGGACCCGCAGCAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGG**ATG**

TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACTCAAGGAGCTCATCAACAATGAGCTTTCCCATTTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAAACACTGGACAATGATGGAGACGGCGAATGTGACTTCCAGGAATTCATGGCC
TTTGTTGCCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAG**TGA**GATTAGAAAGCAGCCAAACCTTTC
CTGTAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGCAGCCTAGTAGGAGCTGAGCTTTCCAGCCG
TGTTGTAGCTAATTAGGAAGCTTGATTTGCTTTGTGATTGAAAAATTGAAAACCTCTTTCCAAAGGCTGTTTTAA
CGGCCTGCATCATTCTTTCTGCTATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTTAGGAGTCAGGTCTCAGTGATAAAGCGTGCACCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTCCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGAAAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCCTCCAACGTGCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAG

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FIGURE 5936

MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

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FIGURE 5937

CGGCGACGGCCGG<u>ATG</u>GCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCGCAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCCTGTTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACTCCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTGTTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTCACCGTGGATGAGCTGCGGATGGCCTTTCCTCTGCTTGACATGGTGGA
CCTGGAGCGGCGGCTAAAGACCACGCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCCTGGAAACCATTTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCTATGTCTGACGTATACGG
CGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCCAGGAACCC
ACAGTCCACGGAGCCTGTCCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGGAG<u>TGA</u>GGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATTGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGGAATTTTCTG
GGCCCAGTTCCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTGCCTCAGTGTCCTT
CTCATTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTCGGCAGAGTGTCTTAACACCAGATGCTACTTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTTAAATAAAATAATCATAATAAATGTTCATGATGCTGACTCTTGTGA

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FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRLV
NSQGQLRVPVVFVTNAGNILQHSKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDELRMAFPLLDMVDLERRLKTTPLPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFGHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRG
WAAPIRKLYAVGDNPMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNEAVQLVFRKEGWALE

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FIGURE 5939

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GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTT
GCTGGCGGGCGGCGCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCGCAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCCTGTTGGACATCAATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACTCCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTGTTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCG
TGATGGAAAATGCCCAGGGACTGGGCTTCCGAAATGTCGTCACCGTGGATGAGCTGCGGATGGCCTTTCCTCTGC
TTGACATGGTGGACCTGGAGCGGCGGCTAAAGACCACGCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCCTCCTCAGCAATGGGA
GCCCTGGGGCTGGCCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCCTGGAAACCATTTACCAGAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCTATGT
CTGACGTATACGGCGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGGCCTCCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATG
AGTGTGGCATTACTGGTCACTTGGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTGTATGGAACGG
TTGGAATTTTCTGGGCCCAGTTCCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTG
CCTCAGTGTCCTTCTCATTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTCGGCAGAGTGTCTTAACACCAGATGCTACTTTTTACTGTA
TTGTAGTTTATTGCCCGGAGATGTGGGGCTTTTTTTTTAAATAAAATAATCATAATAAATGTTCATGATGCTGAA
AAAAAAAAAAAAAA
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FIGURE 5940

MYAWFFLPSFSQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHSKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLGFRNVVTVDELRMAFPLLDMVDLERRLKTTP
LPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFGHGTF
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPPFHGHRDLCFSPGLMEASHVVN
DVNEAVQLVFRKEGWALE

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FIGURE 5941

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AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTCACCGGCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTCATTGAACAAGAAGCCAATGAGAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAGTCCGGGGGAGCCTTGTTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCCTCTGTCACTCATGCCTTGCCTAATT
GTTCACAATGGTGGAAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGTATTTGGTGTTTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAAGAGTTATGCGGATTAATGTGA
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FIGURE 5942

MALSDADVQKQIKHMMAFIEQEANEKAEEIDAKAEEEFNIEKGRLVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAAVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

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FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAGAGGCTCCAGCAGGTC<u>ATG</u>CACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCGTCGGATGCT
GACAGAGAGCTGCGTTTGCCGTGCCCAGCTGAGGGGGAAGCAGAGCTGGAGCTGAGGGTGTCGGAAGATGAGGAG
AAGCTGCCCGCCTCACCGAAGCACCAAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTCATTCCAGTCCACAGCCCCTCAACAGAGGGGCCCCAACTCCCACCTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCAAAGCTGATGCCCCC
TCGGATCTGAAAGCTGTGCACTCTCCCATCCGATCACAGCCAGTGACCCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCGCAGCCCCAGCCACCCGTGGCGGCCTCCACGCCCCCACCCAGCCCACTCCCCATCTGCTCCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCCATCCCCTACCCAGTCCCCCATACGCTTCCAGCCTGCCCCGGCCAAA
ACATCCACCCCACTGGCCCCTCTCCCTGTCCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGCAGCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCCGAGCCCAGCTTCCCCACGCCTGCCTTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAACCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCCTGCACGGGAGCTCCTCCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCCTCCAGCCCGCCCCCACCGCCA
CCCCCGGGCGAGGAGCCCGCCACCTTGCGGAGGAAGCTCAGGGAGGCCGAGCCCAATGCCTCGGTGGTCCCGCCG
CCCTTGCCCGCCACCTGGATGCGGCCCCCCCGGGAGCCTGCTCAGCCCCCCAGAGAGGAGGTGCGGAAGTCGTTT
GTGGAGAGCGTGGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTCTTCACGCCCCCGTCCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCCTGGCCAAG
GAGAACGGGAGGCTGCCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCCAGGCCCCGCAAGGCGTCCTCAGCA
CCCTCCCAGGGCAAGGAGCGCCGGCCTGACTCCCCACACGCCCCACTCTCAGGGGCTCCGAGGAGCCCACCCTG
AAGCATGAAGCCACCAGCGAGGAGGTCCTCTCCCCGCCGTCGGACTCAGGGGGCCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGGAAGAGCAAGAAGAGGTCGTCACTCTTCTCCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAAGGCGAGGGCCGGCCCCCGGAGAAGCCCAGCTCCAACCTCCTAGAAGAAGCCGCCGCCAAACCCAAGTCC
CTGTGGAAGTCCGTCTTCTCCGGGTACAAGAAGGACAAGAAGAAGAAGGCCGACGACAAGTCCTGCCCCAGCACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAAGCACAGGGTGCTTCCCGTCGTAAGGGCAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGCGACGATGTCCTTGAGAAGTCCTCACAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAACTGAATGCCAAGCTGACCCGGCGTGTGCAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGCTGCATCGAGCCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAGGAGAAGAACGCCATGGTGCGCTACGAGTCGGAG
CTGATGATCTTTGCCCGGGAGCTGGAGCTGGAAGACCGGCAGAGTCGACTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGGAAGATCACCTTAAGACTGAGGAGGAGCTGTCAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTCAGCCTTAACTGGTCC<u>TGA</u>GCTCCCACCCAACGCTCCATTTTCTGTTGG
CATCCGCCTGGCCAGGCAGTGGCATCCAAACCACCGGAGCCGCGATCTGAGGAGGCCTGGCACCTCCTTGGAGT
TTACGCTCAGATGCCCGTGTGCTGCTTGGAAAGTGGTCGAGTCCCGCGTGCAGTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCCACCTGGACCTCCCACTCAGAGGAGCAGCACGGCGTGTA
TGGCATGACGCAGGGGACCACCCCGCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCCTTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCCGTCAGAACCACAGTGCGCCGTGCGAGGGGCACTGTCTTCTTCATGCTCC
CTGGAGCACCACCAAAGAAACGTAAACAATACCCCACGAAAGCAGGGTCAGGGGTCAGGGTGCGATCGAGACCCA
GGATGGGGGCGTCCAGTCATGCCCACCCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAATTAGGAGGACGCAGGAGGGGTCTGCCCTCCAGCCGAACACCACACACTGGACCCTAAGTGGCCAAATGC

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FIGURE 5943B

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CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTTGCTGCATTTTGCTTGTAGTTCACAACCATTTTGACA
CTGGAAAATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTCGGGACAGGAGATGACCTTTTCCTCCGTGTTTTTCCTGTGTTTGCACGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCCTTTTTGTCAATTAACTTATTTTTTAATACTTGAAAAG
AAGTAACTTCGTTTGTGTATCTTTACTAGAGGAACTGATCACCTGCGCCCGGGTGCGGGAGCCACAGCGGCATCT
GGTGCGTCCTACGCGACCTGGTCCGGGGCTGCCCGGTGCTCCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCCAGAACCCCTGTGTGGGTCCTCCTCACAGCTTTCTGTCCCCT
CCTCCACCCGGTGCCTGCCTCACCCTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTC
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCCTCCCAGTGAGAATTCCGGCTCTGCAGAACTCGCC
CTTGTCTCAGTTTGGGGGGCCAGGGCATCACCTTCCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAAGGTGGGACCCTGGAATCATGTGGCTGGTGAGAATTCCCTCCTCCCAGCCTA
AGATTCACCCAGACGGAAACGCGAGTGCTGCAGTGGATGCTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCCTTCCGAAGGCGACGGGCACCTGCCTTGTGCCGGATCTTCATGGGGACATAAAGGGCGAGC
CCCGAATCACTAGCTCCTATAGCCAAACTGTTCCTTTCTCACGGTTCCGCACCAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGCTTGTCCATCAAAGCAGTCAGCACATAGCCCAGCGAGGAGCCATCC
GGACCAGACCCGCCTGCCAGGGGCGCTCCAGCCGCCTGCCGCCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCCTCCAAGGCGTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACCAC
ACTGTGCTTCAACTTGAACATTCATCCCAGCTGCAAAGGAGCAAAGAACCTGTGTCATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGGAGATAACGCCGCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTTCTTTTCTCTTTACTTAAAAAAGGGGAGAGGAGGGTTTCTAGATTCCATC
TTCAAACCCCAGTCGTCCCATAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGGCAGAGCCGCCTTCGGCCCTTGTAGCTCCTGCTGGCCCCACAA
CAGGGAAACAGTTTGCAAAGTGGCTTGGAAGGAGTGTGGCCTAGGGATCTGCTGTAAGTGGCCAGACGTAGCAGG
AGAGCCCAGTGTCACCTTCTGGTCCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACACGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTGCAGAGAGGCGCCGCAGAGCCGCAGGCCTGCGCCCCAGCCTTCTGCTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTTAAAGCTCCCATTTTGTAACCACTAGTTTGCGGTTG
ACTTGAGTACTCTGGTGACTTCCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTTGAAGGCAGGGAAGCAGGATGGATACACATATCACACGCATAAAACACC
AGGTGCGGGAGCAGCCCAGACTCAAGGCTGACTAAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGGAGGCGCTCCCGCCCCTGGGCTTGAGGATGCTGCACCCCGTGGGCTTCCAGGCCTGCCCA
GATGATGCCTTCAGGCCTCTGTCCCTGGCGGCCATCCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCCTTTCAAAATAAATTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGGAATGGGTCTGTTTTATGCAAAATAAAAGTTTTTCAAAT
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6440/6881
FIGURE 5944

MHAADPLEIQADVHWTHIREREEEERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPASPKHQERGPSQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSPEERLFPEPLLPKEKPKADAPSDLKAVHSPIRSQPVTLPEARTPVSPGSPQPQPPVAAST
PPPSPLPICSQPQPSTEATVPSPTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSPLAVDEALRRSDLVEEF
WMKSAEIRRSLGLTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRSAQEERRELSSSSGLGLHGSSSNMKTLGSQSFNTSDSAMLTPPSSPPPPPPPGEEPATLRRKLR
EAEPNASVVPPPLPATWMRPPREPAQPPREEVRKSFVESVEEIPFADDVEDTYDDKTEDSSLQEKFFTPPSCWPR
PEKPRHPPLAKENGRLPALEGTLQPQKRGLPLVSAEAKELAEERMRAREKSVKSQALRDAMARQLSRMQQMELAS
GAPRPRKASSAPSQGKERRPDSPTRPTLRGSEEPTLKHEATSEEVLSPPSDSGGPDGSFTSSEGSSGKSKKRSSL
FSPRRNKKEKKSKGEGRPPEKPSSNLLEEAAAKPKSLWKSVFSGYKKDKKKKADDKSCPSTPSSGATVDSGKHRV
LPVVRAELQLRRQLSFSEDSDLSSDDVLEKSSQKSRREPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVAVEKALRGEAGMGKKDDPKLMQEWFKLVQEKNAMVRYESELMIFARELELEDRQ
SRLQQELRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQRLREREEDKDLEAAMLSKGFSLNWS

6441/6881
FIGURE 5945

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CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTCAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACTCCTTTTATAATTATTCACTGCTTTTTGTCAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTCATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAAAATGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTCAGGTTTTTGCAAGTAGATTTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA
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6442/6881
FIGURE 5946

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GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCCGCCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCGAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCGCCATGCCCGCGCCCCGCGCCCCGCGCGCTCTGGCGGCCGCCGCGCCCGCGTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGCGGTACCGGGGCATCGGGGACTGCGTGCGGCA
GACGGTTCGCAGCCATGGCGTCCTGGGCCTGTACCGCGGCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTCAGGTTTGGAATGTTCGAGTTCCTCAGCAACCACATGCGGGATGCCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCGTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTCATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCCTCTGATCAC
TGGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACACTCCTCTGGATGTGATTAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGCAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGCAGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCACTCTG
TCCCCTTCAGGCCTCTGTGCCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCCTCTCCCCGCCCCTCCTCCCACCCAGATTCTACAAGGGCACTGTCCCCGCCTGGGCCGGGTCTGCCTGGAT
GTGGCCATAGTGTTTGTCATCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCCTGCTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCCTTCCCACGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCATTGTGGCTGTCAAATCCATGTGT
CCCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCCAGTGTCTGGCCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCCTGTGCCTGTGTTTCATGTTCTGTGTCACGTGACCCTGTGCCCCGCCTCCCGGGGTGCCCGTGTGG
CCTGGGTCCTCGGCCCTGTAGCCCTGGCCCGGTCCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCCTCGGCCTGGCTTCACCGCATTCCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCCTCTCTCCGCCCCGGACAGGGTGGCACCCACCACTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC
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6443/6881
FIGURE 5947

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AGTAAGCCGGGCTGCCGTCTTCTCGCCATGGGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGCAGGTTGCCCGGCGCCCTGTAGCTGCGCGGGGACGCTCGTGGACTGCGGGCGC
CGCGGGCTGACTTGGGCCTCGCTGCCGACCGCCTTCCCTGTCGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGCTGGACGCGCTGCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGGCGCCCCCAGCGCTGCGCGGCCGCCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCGCTCTGCTGGGGGGCGCTGGCGGCGCAGCTTGCGCTGCTGGGCCTTGGGCTGCTGCACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCGCAGCCCGGCTGTCG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCCTGAGGAGAGAACCGGTGCGTCCTGAGGAGA
GAACCGGCGCTGGGCAACACGGGCCTGCAAACTCGACAGGACCCTGCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCCGCCTCCTCCGCTGCCCAATCTCTCAGACCCACCCCACCTGCAGGCCCAGACCACGTGGGACAGAACTC
CTGCCCACCCTACCCCGAGGGAGGCGAACCCGCACTTCCAGGCTTGGGAGGACCATGGGGCACAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAAACTCTGGTGCTGAATAAACCCTTCTGATCTGG
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6444/6881
FIGURE 5948

MGSGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVDTTELVLTGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAARLSLTDPLVAERAGTDES

6445/6881
FIGURE 5949

CCCAAGATGCCAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCTGGCCCCTGCTGTCATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCAAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCTGCCTTGTGTCGTAAAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCACTGGGGCGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAAACTGGGTTAAATGTACACTGTTGAGTTTTCTGTACATTAAAATAATTAAAATAATA
CAAATTTTCCTTC

FIGURE 5950

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CTGCCGTGTGTCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAATTAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCCTGCACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTTGTTTTTCTCTTCTGGCCCCCACACACTGGCAGACCCG
AAGGCAGGGTGCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGCTGGC
TCTGCTTTCTAATCATGGTGTCAGTCCTTCACTTCCCTTGGAAATACCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGCTGTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACTTTAAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTAGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTCAGTAAAAGCAGTTGGCCCTCTGGAAAATAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTGCCTATGATTCCAGGATTTTAAAAGTTTTAGATGCCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCATACTGTTGGTGGGAATACACAATAATATAATTTGACCACGTAACAATTCTAGGCACATGCATG
CTGTGACTACTTGCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCATGGTTCGGTACCACTACATGGGGGTTTA
GAGCAGGGACTGGAGGTTGGCCTTGCCTCCTCCCCTCCCCGCATGAGCTGAGGGTCCTTACCTGACCTTTTTGAG
CTGTGACCAGAGTTTTTCCTCATGGGGTGGTTAGAAGGGGTTGAATGAGAATGATGCCCATGCAGTGCCTTGGCTG
GGGTCTGGGCCCTCTAACACCCACCTCATGGGTGTCACTGTTTTTTGAACAGCAGAACTGGAAAAGCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCAAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGGCTACAGTTGGCACTGCTTATTTCTTGCTTGCACCTGTGGGCCACCGTG
GCTGGGGCCTGTCAGACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTCACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGAGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGCTGCTGAGGATGGGAGGATGGGAGGGGCCTGCATCCATCCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGTCTGTGTCCTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCCACCCTCATGACCTCATTTAACCCTGAATTACCTCTTTAAAGACCCTGTCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAATATTGAAGGGACATAGTTCTGCCCACAGCGGTGCCCGCGATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTCCTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGCCCAGT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTTCCCTACCTGGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACTTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAACTGCGGCAGAAGGGAGG
GGTCTGCTGTCATCCTTGATAGCCTGTGATGAGCAGAGCCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG
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6447/6881
FIGURE 5951

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GGCACGAGGCTCCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGTCAGCAGGGCCCTCGCATTCCCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATACACCCCC
CTTGTGGATCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACCATGGAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCTAGCTGGGCACATGCCCAGCTCCCGACCC
CACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCGAG
ATCCTCAGGCGCCTAACAGGCCGAGCCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCCTGCCTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGCTGAGTACCATGCTGTG
GTTACCTGTCCCCTGCCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGTCTGGGTCCAACTCTGTATCTAGAAGTGCTCTGTTCGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCCAAGGAGCCCCCAGTCCTGCCCAGTTCTACATGTAGCTCCAAGCCTGGTCCTGTGGAACCAGCCTCTTCCCAG
CCAGAGGAGGCAGCCCCCACACCTGTCCCTAGACTGTCGGAGTCAGCTAATCCTCCTGCCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCCAGAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCCACAGGAGGTGGTGGAGGCCCCGGAGACCCCAGGAGAGCCACCACTTTCTCCTGGGTTCTGAACA
CAGCCCAGGTGGGAACAATGCTGCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCTGCGCTG
AGCAGAACCAGCTCCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTCACCTCCACCCCCATAAAACACCCCCCTTGGTGTCTTCCACACTGG
CTGGGACTGAACTGGGTCTGCCACGTCTGCCCTGTTGGGACCTCGTTCCTGTATGGGGTTTCTGTGTCTGTCCCC
CTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATGTGAGGAAGGCTGCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTTGCCAGGCTCAGCTGCAGGCATTCGCCC
TTTGTGTGTTAACACTGTAGCTCTAATCGTGCCTGGTGTTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGCTGC
CATCCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTCAGCACTTAAGCCCTAGTGTGTAAATGACTTGGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAAAAA
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6448/6881
FIGURE 5952

MEQKSTASGTCGGKPAERGPLAGHMPSSRPHRVDFCWVPGSDPGTFDGSPWLLDRFLAQLGDYMSFHFEHYQDNI
SRVCEILRRLTGRAQAWAAPYLDGDLPLPDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSRSALFEQQLTKESTPGPKEPPVLPSSTCSSKPGPVE
PASSQPEEAAPTPVPRLSESANPPAQRPDPAHPGGPKPQKTEEEVLETEGDQEVSLGTPQEVVEAPETPGEPPLS
PGF

6449/6881
FIGURE 5953

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TGAACACAGCCCAGGTGGGAACAATGCTGCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCT
GCGCTGAGCAGAACCAGCTCCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTCACCTCCACCCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTCTGTGTCTGTCCCCCTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTCGCCCTTTG
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6450/6881
FIGURE 5954

ATTCCCCACACCCTATCCCAGTGTTCCACCCTAGGTCTGAAGGCCCCCGCCCCGAATCCGGCCGCATTCGGCCCC
GGTCTAGCCAGCGCTCTCACCTCTCCCGCGACGGCCCGCCCGGGACTGGACCCGCCCCGGTCCGGCGCAGGCAGC
GCGGCGGGCAGCCCTAGCTGCCCCAGAAGCCCCACGACG**ATG**GCGGCAATGGCGGTGGCGCTGCGGGGATTAGGA
GGGCGCTTCCGGTGGCGGACGCAGGCCGTGGCGGGCGGGGTGCGGGGCGCGGCGCGGGGCGCAGCAGCAGGTCAG
CGGGACTATGATCTCCTGGTGGTCGGCGGGGGATCTGGTGGCCTGGCTTGTGCCAAGGAGGCCGCTCAGCTGGGA
AGGAAGGTGTCCGTGGTGGACTACGTGGAACCTTCTCCCCAAGGCACCCGGTGGGGCCTTGGCGGCACCTGCGTC
AACGTGGGCTGCATCCCCAAGAAGCTGATGCACCAGCGGCACTGCTGGGAGGCCTGATCCAAGATGCCCCCAAC
TATGGCTGGGAGGTGGCCCAGCCCGTGCCGCATGACTGGAGGAAGATGGCAGAAGCTGTTCAAAATCACGTGAAA
TCCTTGAACTGGGGCCACCGTGTCCAGCTTCAGGACAGAAAAGTCAAGTACTTTAACATCAAAGCCAGCTTTGTT
GACGAGCACACGGTTTGCGGCGTTGCCAAAGGTGGGAAAGAGATTCTGCTGTCAGCCGATCACATCATCATTGCT
ACTGGAGGGCGGCCGAGATACCCCACGCACATCGAAGGTGCCTTGGAATATGGAATCACAAGTGATGACATCTTC
TGGCTGAAGGAATCCCCTGGAAAAACGTTGGTGGTCGGGGCCAGCTATGTGGCCCTGGAGTGTGCTGGCTTCCTC
ACCGGGATTGGGCTGGACACCACCATCATGATGCGCAGCATCCCCCTCCGCGGCTTCGACCAGCAAATGTCCTCC
ATGGTCATAGAGCACATGGCATCTCATGGCACCCGGTTCCTGAGGGGCTGTGCCCCCTCGCGGGTCAGGAGGCTC
CCTGATGGCCAGCTGCAGGTCACCTGGGAGGACAGCACCACCGGCAAGGAGGACACGGGCACCTTTGACACCGTC
CTGTGGGCCATAGGTCGAGTCCCAGACACCAGAAGTCTGAATTTGGAGAAGGCTGGGGTAGATACTAGCCCCGAC
ACTCAGAAGATCCTGGTGGACTCCCGGGAAGCCACCTCTGTGCCCCACATCTACGCCATTGGTGACGTGGTGGAG
GGGCGGCCTGAGCTGACACCCATAGCGATCATGGCCGGGAGGCTCCTGGTGCAGCGGCTCTTCGGCGGGTCCTCA
GATCTGATGGACTACGACAATGTTCCCACGACCGTCTTCACCCCGCTGGAGTATGGCTGTGTGGGGCTGTCCGAG
GAGGAGGCAGTGGCTCGCCACGGGCAGGAGCATGTTGAGGTCTATCACGCCCATTATAAACCACTGGAGTTCACG
GTGGCTGGACGAGATGCATCCCAGTGTTATGTAAAGATGGTGTGCCTGAGGGAGCCCCCACAGCTGGTGCTGGGC
CTGCATTTCCTTGGCCCCAACGCAGGCGAAGTTACTCAAGGATTTGCTCTGGGGATCAAGTGTGGGGCTTCCTAT
GCGCAGGTGATGCGGACCGTGGGTATCCATCCCACATGCTCTGAGGAGGTAGTCAAGCTGCGCATCTCCAAGCGC
TCAGGCCTGGACCCCACGGTGACAGGCTGCTGAGGG**TAA**GCGCCATCCCTGCAGGCCAGGGCACACGGTGCGCCC
GCCGCCAGCTCCTCGGAGGCCAGACCCAGGATGGCTGCAGGCCAGGTTTGGGGGGCCTCAACCCTCTCCTGGAGC
GCCTGTGAGATGGTCAGCGTGGAGCGCAAGTGCTGGACAGGTGGCCCGTGTGCCCCACAGGGATGGCTCAGGGGA
CTGTCCACCTCACCCCTGCACCTCTCAGCCTCTGCCGCCGGGCACCCCCCCCAGGCTCCTGGTGCCAGATGATG
ACGACCTGGGTGGAAACCTACCCTGTGGGCACCCATGTCCGAGCCCCCTGGCATTTCTGCAATGCAAATAAAGAG
GGTACTTTTTCTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA

6451/6881
FIGURE 5955

MAAMAVALRGLGGRFRWRTQAVAGGVRGAARGAAAGQRDYDLLVVGGGSGGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPHDWRKMAEAVQNHVKSLNWGHRVQLQDR
KVKYFNIKASFVDEHTVCGVAKGGKEILLSADHIIIATGGRPRYPTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAGFLTGIGLDTTIMMRSIPLRGFDQQMSSMVIEHMASHGTRFLRGCAPSRVRRLPDGQLQVTWEDST
TGKEDTGTFDTVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

6452/6881
FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTCGCGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAG**ATG**CCGGAGGCCCCGCCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTCAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTCGCTGGCGT
GAAGGACAAGGTCACCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGCACACACTACCAATCGTTCCTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCC**TGA**CTGCCCCCCCGGCCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

6453/6881
FIGURE 5957

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MPEAPPLLLAAVLLGLVLLVVLLLLLRHWGWGLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGSEAGP
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6454/6881
FIGURE 5958

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GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCA
.GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTCAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTCGCTGG
CGTGAAGGACAAGGTCACCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGCACACACTACCAATCGTTCCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTGACTGCCCCCCCGGCCCCCCTCTCGGGCTCT
CTCACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAA
TATAAAATAGAAATTAA
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6455/6881
FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGSEAGP

6456/6881
FIGURE 5960A

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GGCGGTCGGTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCGGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTATGT
GAGGGCTTGTAAAACTCTGGTCTTGTAAACTAGTCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCCTCTC
CGCTCCCGTGTGGGCCCGCAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCTTCCAAGCGCTGCCCCGTGAGC
AGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGT
CCGAACTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTTCTCTCCAAAGGATCCTTCTCTAAGGGCC
GCCTCCTCATAGACCCGAACTGTAGTGGCCACAGCCCGCGCACCGCCCGGCACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGCGGTCTGCTCCTTAGCCCTGTCAGTGGGGACG
TGCATGCTTGTCCCTTTGGCGGGAGTGTTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGCTGATAAGAAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTCACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGCAGCCGA
TGATGACCAAGATTAAAACAGTGCTCAAAAGTACGTGGCCGCCCACCTACAGAGCCGCTGCCCGACGGGTGGATC
ATGACATTCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTCACCTGGTCCAGGCCATAC
TTCTTGGGAACGGGAAGCATACGGAAACACGACCCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTCACCCCTAGTGGGGATGTGTCCCCCGTCAAGCCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCCTGGATGAGCCTGACTCTATGGGTGCTGACCCGGGGCCCCCGGACGAGAAA
GACCCACTAGGGGCTGAGGCAGCCCCTGGGGCCCTGGGGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTCGAAGCTACCTGGAGAAGCGTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGGCGGCAATTCAATCGGGAAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTTATTAACCCCAAC
GGGAAATCCGAGGTCTGCATCCTGCACGAGTACATGCAGCGTGTCCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCCAAGTGAGCCTTTTGGTGCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGAACTGCA
AGCAGCAAAAAACTTGCGAAGAATAAAGCTGCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGTTAAACAG
ACCTCTGAAGAGAAGCCCAAAGACAGTGAAGAACTCGAGTATTTTAACCACATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTCCTGGGAAAAACCAGAAGAGTGAATACGTCATGGCGTGTGGC
AAGCACACAGTGCGCGGGTGGTGTAAGAACAAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTG
CTGCACCCACATGTCAAGAACTGGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCCAGCCTGGCGGTGAGCCCCTGTGCACCGTGGACGTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTCATGCATCGTGCACCACAGTGTCAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCAGTGG
CAGCTGGTGACTGTGGACAGTGGTGGACCCTGCTTCTGTGCACCTGCTGCAGGCTCTTTTTATGAAGGCTTTCAT
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCCTGT
GGCTGGCCCGTGATGCCAGGTGGCCCATGTGCCCAGGGCGCCTGCAGGGCTGCTACAGGGACCTGGTCAGGAGGT
GCACATGGTGCCCTGCCCTCACCCACCCTCTGTGTTTCCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTTGGCTTAAACAGAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAACCATCAAGGTGGT
CCCTCTCCAGTCTGGACACGATGCCAGCAAGGATGACGTCCTGCCACCTCCTGGAGTTACCCTGGCCTCCTAGGG
TCCCTTTTTCTGATGAAGTCTTAATTCCCTAAAAGCGCCTCTTTGGCACACTGAGGCCCTCTCTGCCTTTCCTGGC
CTCCGGCAACAGTTTTTTACAAAGATTTTTTGCAGTCGAGTCCATATGTCCACCCATTGATTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG
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FIGURE 5960B

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GACTTGTTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCCATTCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGCCCAGCTTGCTTCTCGACTGGTGGCCCCTATGGGTGGGTGTGCG
ATGGAAATGTGTTCCTGCCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTGGTGCGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTTCTGTCAGGAAAACAATGTTGGCCTGTGGGCCG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCCTCA
ACTCAAATTGCTATAATTAGACACTTGCTTCTGTCTTGCCTCCTGTCTGCAGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCCTAAAGGTTGGGGA
GCCTCGCTGTGTCTTGCTGTTCCCAGGCACCACCACAGCAGGTGCTGCCATACTCTTGTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGCACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG
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6458/6881
FIGURE 5961

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GTTGCCAGAAGCCAGGATCATAGAGACGCTCGGCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGCCGGCGCGGGCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGACCTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCCAGGACGAGGTGGCCAGGCGGCCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCGCCTGGGCGATGAGTGAGAACCTCGACAACGAGGGCCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGCTACAGGGCCGGGGCCTCAGCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCTGGGCCGCTTTGGTCTGCAGCCCCACAAAACCAAACTCTTTGGGCAACCACCCTGCGCC
TTTGTGACATTCCGCAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGCATGGTGCCCTCTGGAAAGGCCGC
CCACTCAGTGTGCGCCTGGCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCGAGCAGGTGCTGCAGAAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAACAAGGCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCACCCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGGTGGATGGGGAGGATAACACCGTGGGCTGTCGGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCCAGGAGTTCATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCAGCCGCCGCCACCAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCCTGGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCGGCACCATTGGCCTGGCCCTGGCCCGGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA .
TGCCCAGAGGCTGTGGAGGACGCCCGGGTGAACGCCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG ·
AGGGCCGAGGACCTGGTGCCCACCCTGGTGGGCAGACTGGCCTCCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGCTGGCTTGCATTCCAAGGTGATCCTGGCCATCGGAGAGCTAAGAACCTCAGGCGGCTGCTGTACGTCTCA
TGCAACCCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCCTTTTCCCCCCACAGCCTCTGCAGAGCCCCATC ·
TAACCGGGTGAAGGGCATTCCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCCCGCAGACCCCGCACTG
TGAGATGCTCATCCTGTTTGAGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACCAGGACCCCCAGATAACACCCTACAAGAAACTGGGACCTTCCCCTCATCCTAGGCCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTCCTGTAGCCTGTTGCCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAAACAACTGCTCAAC
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FIGURE 5962

MSENLDNEGPKPMESCGQESSSALSCPTVSVPPAAPAALEEVEKEGAGAATGPGPQPGLYSYIRDDLFTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRPLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKEIGSTNRALLPWLLEQRHKHNKACC
PLEGVRPSPQQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAFQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAELKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHSKVILAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

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FIGURE 5963

CAGTGGCTCACACAGGTCACCTGCACGCCAGGGCCTGCCCTCCCCGCCCGGCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCCACAGCGCACCCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCGTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCTGTCCCATGGCTGGGGCAGTGAGGGGGCCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGGCCCACTGCCATCACCCAGCACCCCAGATCACCGCCAGGCCAGCCCCCAATGGTCCCC
TTACGGACAGGTCCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCGTCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTCACGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGGA

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FIGURE 5964

TCTTCTCGAGGCCTCCGTTGCCTCGTCTGTGCCCGGGCGGTGGTGCTTACCCGGCGGGGTCGCAGGGAGGTCTCG
TGGCGGCGCGTGTTGGGTCTGCGTTTCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGC
CAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

6462/6881
FIGURE 5965

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CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCCAGATGCCGCGTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAAGGACACAGTTACCCACCTGGCCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCACAACTCCATTTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTCCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCTTTTCAGACCTACTGGGCCCCTTGGGTGCCCAGGCAGATGAAGCAGGCTGCAG
CGCCCAGCCTTCACCAGAGCGGCAGCCCTCCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACCCGCCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCCAGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5966

MPRHCSAAGCCTRDTRETRNRGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTPFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDLLGPLGAQADEAGCSAQPSPERQPSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRRAEAALDALDKAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF
AMQLSSSMA

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FIGURE 5967

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CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTCAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACTCCTTTTATAATTATTCACTGCTTTTTGTCAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTCATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTCAGGTTTTTGCAAGTAGATTTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAACAAAAAAAA
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FIGURE 5968

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CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTCAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACTCCTTTTATAATTATTCACTGCTTTTTGTCAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTCATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTCAGGTTTTTGCAAGTAGATTTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA
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6466/6881
FIGURE 5969A

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CAAGAACGTCCTAGCCGCCAGCAGCATCTATTTCAAGTCCCTGGTCCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCCAACTTCAGCACCCTCCTCACTGCCGCCAGCTACCTCCAGCTGCCCGAGTTGGCAGCCCTCTG
CCGCCGCAAACTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGGCCCCC
CCGCAGCCAGCGGCTGTCCACGGCCTCTGTCATCCAAGCTCGGTATCAGGGGCTCGTGGATGGGCGCAAGGGGGC
CCACGCCCCCCAGGAGCTCCCCCAAGCCAAAGGCTCAGACGATGAACTCTTTCTTGGTGGCTCTAACCAGGATAG
CGTGCAAGGTCTGGGCCGGGCTGTCTGCCCAGCTGGCGGGGAGGCGGGTCTGGGGGGCTGCAGCAGCAGCACCAA
CGGGAGCAGCGGGGGCTGCGAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCCACCCTTGCCCCCTGCCAC
CCCAGGTCCCCACCTCACTCCCGATGACGCAGCCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGGCCTC
TGCTCCTCCCGTTGCCAACAGTGCCTCTTATTCTGAGCTGGGGGGGCACCCCTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGCTGGAGGCGCCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGGAGAGAAGCAGGGCCCAAGGGTCC
CTGCCCGGGAGAGGAGGGTGAGGGGGTCGGGGACAGGGTTCCCAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCCTACCCCTGCAAGGAGGAGGAGGAGAACGGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGCAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCCTACGGGGACAACTTGTATGTGTGCATTCCCTGCGCCAAGGGCTTCCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGGAGACTCACACGGAGGAAGAGCTGTTCATCAAGGAAGAGGGGGGCCTACGAGACAGGCAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTCAGCACCCAGTGCGGCCTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCCACGCTGCGGCAGCACGAGAAGACGCACTGGCTGACACGGCCCTTCCCCTG
CAACATCTGTGGCAAAATGTTCACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCTGAAGCC
CTTCGCCTGCGATGAGTGTGGCATGCGCTTCACCCGTCAGTACCGCCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGGCAAGTTCACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCCTAGAAGCCAAAGACCCGCGGGCGCCCTCTGCCACCTTGCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCCTGGGTCCAGTGGAGGCTCCGGGTGGCCCCTCTGGCCCCCC
ACTGCCCACACCCAGAGCTTTAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGGAAGCCAGGGGTCCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCCAGCTCCCCGCGGGGGCCACCGCAGGGCCTGTGGGCTGGGTCACG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGCAGGCGGCTTGGAGAAAGGGCAGTGGGACGCTGGCCACGGCCAG
GGTGGTGTCGGGAGCAGGCCTCACCCCGCTGGCCGTGTCTGTGTGTGTGCACGTGTGCTTGTGTCTGTGCGGGCG
CGTGCAGCCCTGGTTCTGCAGGGAACAGGTGCTGGGGGTGCAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAGGGTGACCCCACCGCCTACCTCTCTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCCTACTGATCTGTTCCTCTGTTTTTCTTTTTGATTTTGTTTTTTAAACCAAAACAGACAATAGCT
TATTTTCTTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGCCGCTGGCACTCCTG
CGCGTCCCCCGGCTCTGGCGCTGCAGGGGTGTCGGCGCGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTACTTGTTTTTTTATTAAGAGAAAAACCAGTGTAACGTTTATGTGACTGTTTGAACTGGAAG
GTCTGGGGTTCCGGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCCGTCGGTACTCTTGTTTTCATTTGTGTG
TGCGTGCGTGTGTGTGTGTGTATGTGCGTATGTGTGTGTCTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTCGCTTTCCCTCCTTCCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGACTGGCAGTGGAAGCCCTTGACACTCTTGTTTTCCTTCGCTTAGCACCTAGGAAGTCGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCCAGTGCCTGCAGCTCACCTGTGGGTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCCTGGCACCCCGGGCACACAAACCTCTGTGGTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGCTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTGCAGCTCCCGGCCAGGGTGAG
GCGGAAGTGAGCCCTCATCCTGCCACTCCTATCCTCCATTCCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCCTGGCCCCCGGCCACTGTCTCGGGGCCCACCTC
TCGCCCCTCATCTTGGTAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTCAGACCA
AGGTTGCTGATCTCAGTCCCACTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTCATC
TTGCTTCACCATTTTTTTTTCTCTCTCTTTTCATTCTATTTTAAGTTTAGACCAAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGAGCGGCGTCT
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6467/6881
FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCCTGACGCCACCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTCACGCGCCTGGCCGTGTGCATGGCCTCC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCCTTTGCAGAACTTCAGGGACTGGG
AGCAGAGGCCCCTCACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTTAATGAGAAAGCAGAACACTAGTTTCCTATTTAAGACTTTAAGGGTTTGTGGGCGGGGCGGGATTAA
CACAACATTTGGCTTTGTTTTCTTTTTCCTTTGATTTCCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAAACTGGGTTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAACAGGAATCAGAAAATAGCAGATATCATGTAGGAAAGAGAGGATAAACAAAGAAAAAA
GAAAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTTTAAACCAAAGCACATTTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAAGATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCCTCCCCTGCTGCTGGAAACCCTTCTGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGGTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCCAGGGCCCCTCCAAGCCCAGCTGGCACCAAAGAGCTTGGGCCCGTGCTGACCAGCCCCCAAGGCCCTCT
GGCCGGACCATGCTGGTCCTGACCAGCTAGCCTACGCGGGGATGGCCGTCAGTTCTGGCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCGTGACCCTTGGGGATGGGTTGATGCGAGGGTCCCACTCAAGCCAAAA
AGCCGGGACCTTTGCGCAGCTCTGTCGACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCCACCCCAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCCTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTTGTTTTTGTAT
CAATATGTTTGTGCAGTGATGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGGCCGGGCTCC
GCCACTGCATGCTCCCGCCGGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACACCTCAGCCTGTGAAATGAACGAT
CCGGACCCTCACCAACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCGTTCATCACCACTCGGGGGCACCGGG
CCGCCCACCCACTCCCAAAATCCGTCAGTATTCACTGGACCTCAGGCCCTGTGCAGGAGTGCGATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCCAGGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCCTCCTATTTCCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAACTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGGTGGGCATGAGCGGTGGGAACTGAGGCTGCCCAGGACCCCCTTCCTAGGATGCC
CCGGCTTCAGTCACCCCACTTTAACTTTCTACCAGGACCCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGGAGGATCCCCAGGGCTCCCACCCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGGACCCAGGTTGGGCACTGGCTCATTTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTTAATTGGAACTGGAAGAGGGATCATGTTTTGTTTTATGCCCTTCCCAGAAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGCTGTCACTTGTCACATTGAGTTCATGTCCCTTGAGA
GTTTGTATAAATTCAGGTCAGAGCTGCAGCTACACAGCTGCCCAGTGTCATAGAAAGCAATTCACCAACGACTG
ATCTCTCCATTCAGAAGTGTGCAGTCTTAAATGTACAGCGATAAGAAACTGTTATTTTATGATCTTTTCATTAAA
AGCTTGATTG

6468/6881
FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMELPSHSKQLLLQLNQQRTKGFLCDVIIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSTVFQQILDFIYTGKLLPSDQPAEPNFSTLLTAASYLQLPELAALCRRKLKRAGKPFGSGR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDELFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLSLLEAPGGQPRKSLRHSTRKKEWGKKEPVAGSPFERREAGPKGPCPGEEGEGVGDRVPN
GILASGAGPSGPYGEPPYPCKEEEENGKDASEDSAQSGSEGGSGHASAHYMYRQEGYETVSYGDNLYVCIPCAKG
FPSSEQLNAHVETHTEEELFIKEEGAYETGSGGAEEEAEDLSAPSAAYTAEPRPFKCSVCEKTYKDPATLRQHEK
THWLTRPFPCNICGKMFTQRGTMTRHMRSHLGLKPFACDECGMRFTRQYRLTEHMRVHSGEKPYECQLCGGKFTQ
QRNLISHLRMHTSPS

6469/6881
FIGURE 5971

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GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCCATGTCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCGCAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCCGTGGGTCCGGCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCGGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTTGCCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCGGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTCGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCAACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCCGACGCTTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCCTCAC
CGCGCCCACGCTGCGGGCCCAGCTTGCCCAGGATGGCGTGCAGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCCTGGAACCCTCCCTACTCTGACCCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCTCATGCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCGCAGAGCAT
TTGGTGCCCCTCCATGTTGCAATGCAAACACCTTCACCACTGGGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTTC
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FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAVGPFSRHGLRWTDAFVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELMAHPGYPSVPPTGGCGEGPDAFSCSWERLHELRVLTAPTLRAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

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FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCCTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACTCTGAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGGTCCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

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FIGURE 5974

MWSAGRGGAAWPVLLGLLLALLVPGGGAAKTGAELVTCGSVLKLLNTHHRVRLHSHDIKYGSGSGQQSVTGVEAS
DDANSYWRIRGGSEGGCPCGSPVRCGQAVRLTHVLTGKNLHTHHFPSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEREAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHGMPSANTHNTWKAMEGIFIKPSVEPSAGHDEL

6473/6881
FIGURE 5975

GCTTCAGGGTACAGCTCCCCCGCAGCCAGAAGCCGGGCCTGCAGCGCCTCAGCACCGCTCCGGGACACCCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGCAACAAGTGACTGAGACCTAGAAATCCAAGCGTTGGAGGTCCTGAGGCCAGCCTAAG
TCGCTTCAAA**ATG**GAACGAAGGCGTTTGTGGGGTTCCATTCAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGCAGGCCTGGCCCTTCACCTGCCTCCCTCTGGGAGTGCTGATGAAGGGACAACATCTTCACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCCAGGAGGTTCGCCCCAGGAGGTGGAAACTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAACAGGGCCAGTCTGTACTCATTTCC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCCTCAAGGAAGGTGCCTGTGATGAATTGTTCTCCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTTGCAATGCCCATGCAGGA
TATCAAGATGATCCTGAAAATGGTGCAGCTGGACTCTATTGAAGATTTGGAAGTGACTTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCCACATCCATGC
ATCTTCCTACATTTCCCCGGAGAAGGAAGAGCAGTATATCGCCCAGTTCACCTCTCAGTTCCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTTCCTTAGAGGCCGCCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCTTGGAAACCCTCTCAATAACTAACTGCCGGCTTTCGGAAGGGGATGTGATGCATCTGTCCCAGAGTCCCAG
CGTCAGTCAGCTAAGTGTCCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCGAGCCCCTCCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGCCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCCTGTTTCATGCCTAAC**TAG**CTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTCAGTGT
GAGTGAGGAAAACATGTTCAGTGAGGAAAAAACATTCAGACAAATGTTCAGTGAGGAAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPRRLVELAGQSLLKDEALAIAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLMKGQHLHLETFKAVLDGLDVLLAQEVRPRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQPFIPVEVLVDLFLKEGACDELFSYLIEKVKRKKNVLRLCCKKLKIFAMPMQDIKM
ILKMVQLDSIEDLEVTCTWKLPTLAKFSPYLGQMINLRRLLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA
LYVDSLFFLRGRLDQLLRHVMNPLETLSITNCRLSEGDVMHLSQSPSVSQLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSISISALQSLLQHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCFMPN

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FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTCGTCGTCTGCGGCGGCGGCGGCGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGCCCGGTCCGCATTTCGCCTTCCGGCTTCGGTTTCCCTCGGCCCAGCACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCGGCTCCGGCCGCCCGCCTCTGCCGCCGCA**ATG**ATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATACACGACTCTAGCCACCAGTGTGACCCTG
TTAAAAGCCTCGGAAGTGGAAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCCAACAGCTCCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCCGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCGAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCTTCACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTCAGAAATCCTC
TGTGACGATCTGGATTTGAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCCACGGACAGCATCCTGGAGGACCAGTCAGACCAGCGCGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCAGTTTGAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGCCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTCACCACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTCAGCGAGAACCCTCTGCCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGCCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACACG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGG**TAA**CCAGCCCATCAGCACACGGCTCCCACGGAGCAT
CTCAGAAGATTGGGCCGCCTCTCCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCCAGCGCCATCCTGA
GGATCGGGTGGGGGTGGAGTGGGGGGCTTCCAGGTGGCCCTTCCCGGCACACATTCCATTTGTTGAGCCCCAGTCC
TGCCCCCCACCCCACCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

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FIGURE 5978

MMMMALSKTFGQKPVKFQLEDDGEFYMIGSEVGNYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDAVPCSTTINRNRMGRD
KKRTFPLWCGCIAALTLRADSALVLHFDDHDPAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPE
MFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENSPE
KFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIR
DQDRNTRRMRRLANTAPAW

6477/6881
FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCGTCTGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATC**ATG**CCGATGTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCCTCTCCGAGCTCACCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACTCCACCTTCGCC**TAA**GAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCGCCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

6478/6881
FIGURE 5980

MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCCTAAGGAGGGGGCGGGGCCTCCAGATTCGAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGCCCAGCCGCCGCCTCCCGTTCTCTCCTCCGCAGCGGCGGCGGTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCCGGGGCCATGGGCGCC
CCGCGCCGCCCGGGTCATGAGGACGGAGGCGGAGGCAGCGGGGCCGCCGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCCCGTCATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGCTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTG**ATG**CACCACTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCTGGGTGTCGACAAGGGCT
ACAAGAACCAGTCCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGCACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGCTGGTGAACTCGGGGGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCCAGTGGCCACCACTGCTTCTGCCGCACTCCTGACTACCAGGGCCACTTCATCGTGCTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCGACCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCAGCTATGGCACAGATGAGGACATCCTCTTTGTCTACTTGGACAGC**TGA**CAGCAGGAGC
CTGGTGCGCCTAGGCCCTCGGACCCCATCCCCACCCCAGCCGGGCCCGCTCAGGATGCCCTGGCCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAACTGCAGCCTCAGCCCATCTGGCAGAGTCCCAGGAACTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCATGTCACTCACCCCAAGCACCTGCTGGCTGCTGGAAGCATACCCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTTGCCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCGCAGGACTGAGCCTGGAGAGAGAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCCAGGGCTGAGGACCCCTCCAGGCCC
CTCTCTCCTGGAAGTGCTGCATATGCCCCTGTGCCCAGTGGTTGATGATACCACCACCACCTGCCTACCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCCGCTGGAGACTCTTAAAGCCCCCACAGCCCTCCAGGTCCTCCAGCTCTGTCAGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGGATCCCTGCACCCAGGAGGCCTCCTGACACCAGCCAAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCCTAGTCCTTTAAGGTTGGCTGCTAAGGCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCCACCCAACCTGGTCTTCACACCAGATTGCACAGGATACTGGGTCTTGTCTATCTTGATGGAGAAGAGGG
GTTCCTGCCCAGGATCTTACAACACAGCAAGTAGCATAGAGCTCTTTCCTTCCTCTTTTTTGGGGAGGTTGGGGT
CAGGGGTTGTTTCTTTGAGATTTAAGTTTTCATTTTTGAGGGGTAATCACCTTCAAGTAAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTCAGAGAAAGG
GACTTGGCCAGTGGTTTAAGTACCTGCCCCTTCACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCCAGTCTGCACCTAAAAAACTAAAGGAAATGGA
TTTTTTTTTTTTTTTTTGAGACGGAGACTCACTCTGTTGCCCAGACTGGAGTGCAGTGGCACGATCTTGGCTTAC
TACAACCTCCGCCTCCTGGGTTCAAGCGATCCTCCTGCCTCAGCCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGGGAAATGGGTCATTTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCCTGCTCTTCCAATGCCCAAGGCATGGCATGGTGGCAGCTGTGCCCCCGCCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGCAGAGGTGGGCTCTGTTTAGGAGGGCAGTGAGACCACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTTAGTTGGGCAGCCCTTCTGGGTTTCAGA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCTTAATGCCAGGTGGCCCAGGAGTACCCATGCACAGC
AGCTGTGGGGTGTGGGCATCTTCAGGTGGTGTTCTGGTAAAATTGTTAGAATAGCTGTATGAAGGAAACCAGTGG
GAGGAAATGAAGTTTTCAGGATGGTGGGATGTGATTTAGACAGTGCACATGCTGTTAGGGCTGTCACTAGGGAGT
GGCCTTCATGGAGGGTGGTAACAGCACCTCAGTCCAGCCAAAATGTTTAGAAACACTCAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTCACCTTCCTGAAAGATGAATGAGAAAGCTGCCCATTCTCAA
GACTCATCTGCCTAGGGAGGGTCACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGCACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGCCCCACAGCACATGACACCGACAGCTGCCCAGCCTGTTCA
CATGCTGGGGACCAGCACAGCACCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCATTCTAGCCACGGGGATGAA
AGGGATCTTTTGCATTGCAGAGATTTTATATATATTTTGTTTGTAATGAGCCATTCTCAATAAACATTATTCTCA

6480/6881
FIGURE 5981B

CTGC

6481/6881
FIGURE 5982

MHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCFCRTPDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTSISNFEEAR
TSYGTDEDILFVYLDS

6482/6881
FIGURE 5983

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TCTTGACTCACGCCTTCGCCGTAGCATCTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAACTCT
CTTCCTGCCAAGATGTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAATTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG
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FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLIEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQGSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

6484/6881
FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACTTGTCGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCCATTACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCAAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACTCACTCCTTTTAAAGAAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTTAAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTTGGTGCACAGCACAAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

6485/6881
FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCCTACCCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

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FIGURE 5987

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GGCGCTGGGCGGCTGCGGCGCGCGGTGCGCGGTGCGTAGTCTGGAGCTATGGTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCTGCTTCTGTCGGGGCAGCCCGCCTCCGCCGCCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCCAGAGAGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACTCATGGCCTTGTAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCCAGTTGTCACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTCAGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCTTACCAGCCTCCCTTTCTCTGTCAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCCTCAGAGAATGATCACCCTGAATTCATTGTCTCAG
TGAAGGAAGAACCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCCTTTCCCCATTCAGTGACA
TGTCCTCTCTGCTTGGTGTAAACCATTCTTGGGAGGACACTTTTGCCAATGAACTCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCCTTGACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTACTTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCCTAGAGAATTCCTCTATTTGTTCAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAGATTGTACTTTATCTTAAAAGGGTGGTAGTTTTCCCTAAAATACTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTTGGCATCCTGGCTTGCCTCCAGTTTTAGGTCCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTTCCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAAACTACCCATG
CAATTAAAAGGTACAATGCAAAAAAAAAAAAAAAAAAA
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FIGURE 5988

MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNISPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

6488/6881
FIGURE 5989

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AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAACTGCCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCC
CAGCCTAGGATATGGACAGAGTAACTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCCTCCTACCAGCTATTCCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCACTAGTTACCCACCCCAAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTCATTCCGACAGGACCACCCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAAGG
CGATGCCACAGTGTCCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCCAGGAGGTCCTGGGGGACCCATGGGTCG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGGTTCCCGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTTGTGGAAACCAGAACTTCGCCTG
GAGAACAGAGTGCAACCAGTGTAAGGCCCCAAAGCCTGAAGGCTTCCTCCCGCCACCCTTTCCGCCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTCAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGTCTGTACTTTAGTATTTTTCACCATTTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCCTTCTTTTAAAAATGGTTGTTTAAGACTTTAACAATGG
GAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAACTGTAACAATGTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTAAAATAAAATTCCAAATGTTTAATAAAAAAAAAAAAAAAAAAAA
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FIGURE 5990

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAPPSYPPTSYSSTQPTSYDQSSYSQQNTYGQPSSYGQQSS
YGQQSSYGQQPPTSYPPQTGSYSQAPSQYSQQSSSYGQQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSGPDNR
GRGRGGFDRGGMSRGGRGGGRGGMGSAGERGGFNKPGGPMDEGPDLDLGPPVDPDEDSDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVSLARKKPP
MNSMRGGLPPREGRGMPPPLRGGPGGPGGPGGPMGRMGGRGGDRGGFPPRGPRGSRGNPSGGGNVQHRAGDWQCP
NPGCGNQNFAWRTECNQCKAPKPEGFLPPPFPPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRGGDRGGFR
GGRGMDRGGFGGGRRGGPGGPPGPLMEQMGGRRGGRGGPGKMDKGEHRQERRDRPY

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FIGURE 5991

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GGACGCATAGAGCTGCGGCTCGGGCGGCGCCTCCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAAT
GCTCCCCGGGGCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCCTGCCCACAGTGACTCGGCCGGTCCGGGCA
TGGCAGACCCAGTGGCGGGCATCGCGGGTTCGGCGGCCAAGAGCGTGCGGCCATTTCGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGGTGGTGGCGATG
GCTTCCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCGAGGCTGCCCGTGCAT
TGGCAGCCGCCCGCCCGGCCCGAGGTGTGGCCTTCCAGGCGCACAGTGTAGTGCCTGGCTCCTTCATGGCGCGCG
ACAACGTGGCCACCTTCATCGGCTGGTGCCGCGTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGG
ACCTGGTGCTGCGCAAGAACGAGAAGAGCGTGGTGCTGTGCCTGCTGGAGGTGGCGCGGCGTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGCAGTTTGAGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCCA
ACGCCCCTGCCGCTGGGGAGGACACCACTGAAACCGCCCCCGCACCAGGGACTCCTGCCCGCGGCCCCCGCATGA
CACCCAGCGACCTGCGCAACCTCGACGAGCTGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGCTGAGGA
GCCACGTGATGGTGCGAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCCTCCACTGCTCATCGCCCACCCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTCGCCCACCACCA
GTCCCCGCCCTGCTAGCCCAGTCCCTGGGAGTGAGCGCCGGGGCTCCCGGCCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAAGGAGGGGCCCGAGACCCCACCCAGGCCCCGGGATCAGCTGCCCCCCCCATCCCCGCTCCCGCCGCT
ACTCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCCAGAGCGGCCCCCTTGGTACCCGCAGTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCCGGCGGCTGACCACAGGCACCCCGGCCTCTCCGAGACGGCCTCCTGCCC
TGCGCAGCCAGTCCCGAGACCGGCTGGATCGCGGCCGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCCAGCTGT
CGGTCCCCAGCCCTGCCCGGCGGGCCCGGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCCAGACTCCCC
GTGCCCGCAGCCCTGCAGCACCCCGGCTTTCCCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGCAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCCAATGCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCCACTGGACCAGCCCCTGACCCAGCTCGGGCCC
CCGACCCTCCAGCTCCTGACTCTGCCTATTGTTCCTCCAGTTCCTCCTCTTCGTCCCTCAGCGTCCTGGGTGGCA
AATGTGGCCAACCTGGGGACTCTGGCCGGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCCAGCT
CCTCCGATGAAGGCAGCCCCTGCCCTGGCATGGGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTG
AACCCTCGAGGACCTGGGCACGGGGTCGGATGGACACACAGCCAGACCGTAAACCCTCACGTATCCCCACGCCTC
GGGGCCCCCGCCGCCCCTCCGGACCCGCAGAGCTGGGGACATGGCATGCCCTGCACTCAGTCACCCCGAGGGCTG
AGCCAGATTCCTGGATGTGATGGACCAGCTCAGCTGTCCCCAGACCCCATCCCTTCTCCTTTTCCTTTGTGGCCT
TAACCCTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCAC
ATGGCACAATGGGACCTCTGTTGTACATTCCGGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCCTTAGAGGAGGCCGGGCGAGCCCGGTGTTCTGAAGACCTGTGGCCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGFLTGLATGTTLCQHANAVTEAARA
LAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLCLLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAPGTPARGPRMTPSDLRNLDELVREILGRCTCPDQF
PMIKVSEGKYRVGDSSLLIFVRVLRSHVMVRVGGGWDTLEHYLDKHDPCRCSSTAHRPPQPRVCTFSPQRVSPTT
SPRPASPVPGSERRGSRPEMTPVSLRSTKEGPETPPRPRDQLPPHPRSRRYSGDSDSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDRLDRGRPRGAPGGRGAQLSVPSPARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRGSGGSGRSTPQTPRARSPAAPRLSRVSSPSPELGTTPASIFRTPLQLDPQQEQQLFRRLEEEF
LANARALEAVASVTPTGPAPDPARAPDPPAPDSAYCSSSSSSSSSLSVLGGKCGQPGDSGRTANGLPGPRSQALSS
SSDEGSPCPGMGGPLDAPGSPLACTEPSRTWARGRMDTQPDRKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRA
EPDSWM

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FIGURE 5993A

ACCACTTGAAGAGAGGTTCCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACTTAAATGTGTAGTTCCAGTCCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTCGGCCGCCCCTTCC
TTACTTCCGGTTCTCTATGGTGCGCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGGAGCTGTGAGGAGGAACAACCATGTCATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTCATGACTCTAAAGAAGCTTAACCGATTAGCCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCTCACCAGCAAACACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTCGACCAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCTCC
CCTCTATGTCCTCTTTGTTCAGGCCACTGCGTATGGGCAGGCCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGGGAGACCCACACTGGGGGTTCAGTTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCATGCTCGACCTGAAGTGCAAAGATGACAGTGTGCTTCACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAACTGCCATGGAGCTGATCACCCCCATCAGTGCAGG
TGACTTGCTGTCTCCTGACTCAGTCCTGAGTTGCTTGTATCCTGGGGATCATGGAAAGAAAACTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTACTTGAGCTAGGTCACCCCTATTT
GTGGGTGCAGAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAAACA
GTTTGCATCCCTAGAACATGGCATTGTGCCAGTTACCAGTGATTGCCAGTACCTCTTCCCTGCCAAGGTTGTCTC
TCGCCTGGTGAAATGGGTGACAGTTGCCCATGAGGATTACATGGAGCTGCACTTCACCAAAGACATTGTGGATGC
GGGACTGGCTGGGGACACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTTGAACCCTGGCTACTCCTCCATCCCACCTGTTTTCCAGCTCTGTTTGAACTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTCGGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGCCCAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCCTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCCTGAGCACTGGGCTTCTGCTTTCTGCTCTGGCCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAAAAGCGTCACCTGACCAGTGGCCTTTGTCTGTGGTTCCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAAAAGATTCCAATTCTGCAGAGAGATGCTCACCTCTTGTCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCCTCATGATCTTGTATTTATTATCCCAAGTTCCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAAACTCTTCCCTCCCCACCCGCTCTTCCCATTAGTCCTGTCAGGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAAACAGAAGACAAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAAACTTAACTAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTCAGTATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCGACATGGTGAAACCCTGTCTCTACTAAAAA
CATGAAATTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAATATATCTACTATTAAGTAGAAGTGGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

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FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAAACTATTGTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTCATGGAGATGGCGAGAGTGGTGTTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTC
CCAGGCTGGTCTCAAACTCCTGGGCTCAAATGATCCTCCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCTCAAAATATAATTATTTGATTAA
GAGAAGTCTTGGGAAGATAGGTAACAACCTTTAAAATGTTCATAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGTATCTTGACCCCACCATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGCGCGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

6494/6881
FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCCTCGCGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCGAGGGTCCCGGGCCTGAGCCCCGCGCC**ATG**GCC
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTCACCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCCAGTGTTCACAAGCGGGGATTTTTGGCCCAAGAGGAATTGCTTCCAAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCGAGGAGGAGGCAAAACTTCTGGCCCAGAAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCCACGTACCCGCCCATGAACCCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTCGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGAA
TACATGGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAAACTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATT
AAAAAGCTCACCTTGCAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTC**TAG**CAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGGTTTCCGTGGGAGCTCCAGAACTTTCCCCAGCTGAGTGAAGAGCCCAGCCCCTCTTATGTGCAATTGC
CTTGAACTACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

6495/6881
FIGURE 5995

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKDTVAWL
KMDKKVLDHDVSKEEPVTFHFLAKFYPENAEEELVQEITQHLFFLQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVNKLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAERTRDELERRLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAEESERRAKE
ADQLKQDLQEAREAERRAKQKLLEIATKPTYPPMNPIPAPLPPDIPSFNLIGDSLSFDFKDTDMKRLSMEIEKEK
VEYMEKSKHLQEQLNELKTEIEALKLKERETALDILHNENSDRGGSSKHNTIKKLTLQSAKSRVAFFEEL

6496/6881
FIGURE 5996

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GGCACGAGGCCGGAAGTGCGGGCGCTCAGGGAGCTGTCACCGTGGTCGGCGGCGGCGGCGGCGGCGGCACAG
AGCCGGTGGTGGAGCCGCCGAGGAGGGTCACGCAGCACAATGCCAGCTCTGCCCCTGGACCAACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCTCACGATAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCCTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCTGAGGTT
GTTGACATGCAGAAGCGCCTCCATCGAAGTGTTTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAAA
GATCACTTCATTTCCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTG
GACCTCTGCGTGCTCTTTGGAAAAGGCAACTCACCACTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCAGAAGCTTGAGGAGAGGGGCCGATTGACCCCCAGTGACATG
CCTCTCCTGGAATTAAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCTTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCCAGAAGCACGACTTTTGTTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTC
TCCCATTCCAGGAAGAAGCTAATGGAGATTTTCCACATCATCCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTCAGGGCTTCATCGAAGAGTTCCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCCTCCGGGACTATGATGCACTCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCTCATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCACATCCGGAGAACTCGGAGGAAGAGGAGTGCATGGGAGCAGCCGCGGCTGTGGGCCCTGCC
ATGTGTGGGGTGGAACTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCC
ACCCTCAGCCAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCTACACCCCTGCTGACGTCTCGCCAC
AACGTCTTCCAGAATGACGAGTTTGATGTGTTCAGCAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTAC
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATC
AGCCGCAGGCCATTCACCATCCCTCAGGTGCTGAGAACCAAAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACCCTGCAGTGCTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGC
AGCCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGA
GCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTGAGACCTGGTGCAG
GGCCAGTGGGGAGGCAGCGGCACCAGACTCACCAGGCCGTGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGCCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCCTGAGAAGGCCGCCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCCTGCAGAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCCAAACCTCGGGCCACAAG
ACACCACTTCCCCTTTACCCTGGACAGCAGGAAACCTGTATATTCAAAAACACAAAAAGTCCTGCTAATAAAATT
TTTGACCCTTTCAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTSPALHPEQKADRYFVLYKPPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLQKCLDSYLRYVPRKFDEGVASAPEVVDMQKRLHRSVFLTFLRMSTHKESKDHFISPSAFGEIL
YNNFLFDIPKILDLCVLFGKGNSPLLQKMIGNIFTQQPSYYSDLDETLPTILQVFSNILQHCGLQGDGANTTPQK
LEERGRLTPSDMPLLELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAAIPEMESAIKKRRLE
DSKLLGDLWQRLSHSRKKLMEIFHIILNQICLLPILESSCDNIQGFIEEFLQIFSSLLQEKRFLRDYDALFPVAE
DISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDPSVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAAAVGPAMCGVELDSLISQVKDLLPDLGEGFILACLEYYHYDPEQVINNILEERLAPTLSQLDRNLDREM
KPDPTPLLTSRHNVFQNDEFDVFSRDSVDLSRVHKGKSTRKEENTRSLLNDKRAVAAQRQRYEQYSVVVEEVPLQ ·
PGESLPYHSVYYEDEYDDTYDGNQVGANDADSDDELISRRPFTIPQVLRTKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHDSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

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FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACTCATGTAG

6499/6881
FIGURE 5999

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GGCACGAGGCCGCAACTCGCTCGGCCGCCGCCATCTTGCGAGCTCGTCGTACTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCGACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCATGCCGGCCGGACCCGTGC
AGGCGGTGCCCCCGCCGCCGCCCGTGCCCACGGAGCCCAAACAGCCCACAGAAGAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCTCCTCCAGAGGTCAGAAATATTGTTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGATCCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTTCTGAACCCCAATGACCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTCATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCCGAGAAGTTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAAACAGTGGACTTCCAACCCAATGAGCAAGGGAACTTCCCTCCCCCCACCACGCCAGAGGAGCTGGGGGCCC
GAATCCTCATTCAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTCGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATG
AGGGTTCAGATGATGAAGAAGAAGGGCAGAAAGTGCCCCCACCCCCAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCTCCAGCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCGGACCCAGCAGGCTGCCCAGGCCAACATCACCCTCCAGGAGCAGATTGAGGCCATTCACAAGG
CCAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCACCCACAA
TGCCACCTCCAGTTCGTACTACAGTTGTCTCCGCAGTACCCGTCATGCCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCCAGGCTCAGTGATCGCCCCCATGCCGCCCATCATCCACGCGCCCAGAATCAACGTGGTGCCCATGC
CTCCCTCGGCCCCTCCTATTATGGCCCCCCGCCCACCCCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCAC
CTGTGGCACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCCACCTCCCATGGAAGATGAGCCCACCT
CCAAAAAACTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCCTGCGCAGAAACAAGGGTCCAGTGTCCA
TCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGGAATGGAAACTGAATGGGCAGGTGCTGGTCTTCACCCTCC
CACTCACGGACCAGGTCTCTGTCATTAAGGTGAAGATTCATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGC
TACAGTATGAGGGTATCTTCATCAAAGATTCCAACTCACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAGTAGACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCCTGTCTCCCACCCCCTGCCCCAGACCCAGGAGCCCCCCTGAGGCTTTGCCTTGCCTGCATATTTGTTTCG
CTCTTACTCAGTTTGGGAATTCAAATTGTCCTGCAGAGGTTCATTCCCCTGACCCTTTCCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTTGTGTTAGGGTCTCGATTTGAGGACATTCATTTCTTCAG
CAGCCCATTAGCAACTGAGAGCCCAGGGATGTCCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGGCTAATA
GAATATGGCTGATATTGTCATTAATCATTTTGTACCTTGACATGGGTTGTCTAATAAAACTCGGACCCTTCTTGT
GAAAAAAAAAAAAAAAAA
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6500/6881
FIGURE 6000

MPAGPVQAVPPPPPVPTEPKQPTEEEASSKEDSAPSKPVVGIIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKFNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTQQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGL
FSKLKKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNEQGNFPPPTT
PEELGARILIQERYEKFGESEEVEMEVESDEEDDKQEKAEEPPSQLDQDTQVQDMDEGSDDEEEGQKVPPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEEIQKPEEKVTWDGHSGSMARTQQAAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRP
PMASVVRLPPGSVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPNMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYYNMANGAVIHLALKERGGRKK

6501/6881
FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCCAGCCCTGAAGCAGGCCGCAGCGCC
AGGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCCTCCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTGA

6502/6881
FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGKKAGEVPSPEAGRSARVTVAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPAPPDHTLVPGLC
IGLLLHVNLLLLPGNVDTWLPGVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

6503/6881
FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAA
GGGTTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATACAAGGTGTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCAACTACAAACTCGACCACATCATCAAGGAACGGTATCCCACGTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTCAGCTGTGCCGCCGGCTCACTGTGGAGTTCATGCACTACATTATCGCTGCCCGTGCCCTGCGCAAGGT
CTTCCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGACGTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCT
GGGCTTTGTCAACTTCCGCCCTTTACCAGTTGCTCAACCTCCACTATCCCCCGAAGCTCGAGGGTCAGGCCCAAGC
AGAGGCAAAGGCCGGTGAGGGCACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCGCGTGGTGGTGCCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTTGAGGGCCTGAA
GTTCTTCCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTTGGTGGGGAAGTGTCCTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTCGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGCAGCTGCCCCCACACCTTTCACCCTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGGACCCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGGTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAG
GCGAAAAATCCGAGAGGCCAACAAGCTGGCGGAGAAGCGGAAAGCCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCCTGCGGCCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCCTTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGG
TCAGAGAAGAGGCCTCTGTGCCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCCACC
CAGCCCCCTACCTACTGCCCCCATTCATCCTGGCTTTCCACAGCCCCCTCCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAGGGTAGGGGGAGCATTTGTTATTAAATGACTGGACTTTTGAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKKVNKGSTAARTFYLIKDIRFLLH
EPIVNKFREYKVFVRKLRKAYGKSEWNTVERLKDNKPNYKLDHIIKERYPTFIDALRDLDDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLLNLHYPPKLEGQAQAEAKAGEGTYALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKKLFEGLKFFLNREVPREALAFIIRSFGGEVSWDKSLCIGATYDVTDSRITH
QIVDRPGQQTSVIGRCYVQPQWVFDSVNARLLLPVAEYFSGVQLPPHLSPFVTEKEGDYVPPEKLKLLALQRGED
PGNLNESEEEEEDDNNEGDGDEEGENEEEEEDAEAGSEKEEEARLAALEEQRMEGKKPRVMAGTLKLEDKQRLA
QEEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEKRKAHDEAVRSEKKAKKARPE

FIGURE 6005A

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CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAAACACTTGAAGAAATTGTAGTTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCAGTAACTCGTTCCTTGATATTATATGGAAATCGTTTCC
CCAGAAAATTTTGCTTTTTCACTTTTTGAGATGTATCCCACTGGAGTGAAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTTGCTAATCCAGAAGAATCTGATTTTTGTTTATTGGATCAAA
ATTTTCTAAATGCAAACTTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCATTCAAGTGTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTCCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTTACTTTCTAACAAGAAAACAGAAGACATTTAAATGACAACTTTCA
AGAAGAAAATTTTTATTTTTTCAGAAGTTGGCATTATCTTCCTGGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTTTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTCATGGTTCTTGAGTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAAACTTTAGTGTTTTAATACATTCACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGAACCACTCACGAATTCTTGTTTGGTGCTC
TTGCTGAACTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTGCTTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAAATCGGGCT
CAATGCGCATTGGGAAGGATTTTATCCTGTTCACCAAGAAGGAAGACACCATGACGTGCCTCTTCCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCACTGCCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACTCATGG
ATAATGGAGAGCCAGAACTAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCCAGAGGGCA
CGAAGCCAGAGCGGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCCTGCTGCCTGTACAAGCCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACTGAATTTTGTTTTTGGTGTCAACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCCTGGAGCCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCCTGACACCTGGGTTTGCTCCATGAACCCTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCCTGGGAACATTCAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACCACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCCTCGGTCGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTCATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCTCTGGTGCAGCAACTGTCACCATCTTTACTGCCCAACTCCAAGAGCCCTCGGG
AGGTTCCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTCGCAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGCAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGCTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT
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FIGURE 6005B

ACACGGGCCGTGTCACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGAC**T**
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCCACCTGCCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

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FIGURE 6006

MLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNGLKSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVTDNVEKFAIETELIYKYSPFRTEEEVMTQFMKIPGDSGTLVIIFNLKLMDNGEP
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAAVLYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAEHVARIAEEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQRALKE
PKELNFVFGVNIEHRDLDGMFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVVDVPYLVLEPTHNKQDFADAKEYR
HLLRAMGEHLAQYWKDIAIAQRGIIKFWDEFGYLSANWNQPPSSELRYKRRRAMEIPTTIQCDLCLKWRTLPFQL
SSVEKDYPDTWVCSMNPDPEQDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQ
ADLKKLPLEVTTRPSTEEPVRRPQRPRSPPLPAVIRNAPSRPPSLPTPRPASQPRKAPVISSTPKLPALAAREEA
STSRLLQPPEAPRKPANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEEKKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTGRV
TAVEVGKHVVRWKVKFDYVPTDTTPRDRWVEKGSEDVRLMKPPSPEHQSLDTQQEGGEEEVGPVAQQAIAVAEPS
TSECLRIEPDTTALSTNHETIDLLVQILRNCLRYFLPPSFPISKKQLSAMNSDELISFPLKEYFKQYEVGLQNLC
NSYQSRADSRAKASEESLRTSERKLRETEEKLQKLRTNIVALLQKVQEDIDINTDDELDAYIEDLITKGD

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FIGURE 6007

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CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAACTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTCACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCCAGTGCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCCAGCCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCCAGAGCC
CCACCAGAGGCCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTCGGTGC
TCAGCCCCCGCCAACCAGCCCAGAACCGAGAGTCCACCCCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCCGCAAGGCTCCTGGGCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGGTTCAGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCTTGAAA
ACAGAGCAGGGGGGCCTGTGGCACGTTCAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCCGACCCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTCAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTCGAGCCAAGACTCGCGGCTACGAGCACGTCGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTCACCTATGTGCAGTCGCTCTACA
ACCACCTGCGACGCCACGAACTGCGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGCATGGCCAGCCAGTGG
CAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCACCGCTGCCCTGTCTGTTGCGAC
ACCCTCCCCCCCACATACACACGCAGCGTTTTGATAAATTATTGGTTTTCAACG
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FIGURE 6008

MADEALAGLDEGALRKLLEVTADLAERRRIRSAIRELQRQELEREEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSREDSKGLAA
HRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPEPQESPTLPSTEGQVVNKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRSL
SVLSPRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTPQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTSFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAALRELRQRKRDQRDKERERRLQEARGRPGEGRGNTATETTTRHSQRAADGSAVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFGVPNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYGQLSPQNRRQNFEVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQS
LYNHLRRHELRLRGKNV

FIGURE 6009

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAG**ATG**GCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAACTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTCACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCCAGTGCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCCAGCCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCCAGAGCC
CCACCAGAGGCCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTCGGTGC
TCAGCCCCCGCCAACCAGCCCAGAACCGAGAGTCCACCCCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCCGCAAGGCTCCTGGGCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGGTTCAGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCTTGAAA
ACAGAGCAGGGGGGCCTGTGGCACGTTCAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCCGACCCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTCAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTCGAGCCAAGACTCGCGGCTACGAGCACGTCGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCGCAGCTCCTGG
ATACAGAGGACATGGTGCGGCTTCGAGAGCCTGACTGGAAGTGCGTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCC**TAA**CCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTCACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAACTGCGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGC
ATGGCCAGCCAGTGGCAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCACCGCTGC
CCTGTCTGTTGCGACACCCTCCCCCCCACATACACACGCAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6010

MADEALAGLDEGALRKLLEVTADLAERRRIRSAIRELQRQELEREEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSREDSKGLAA
HRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPEPQESPTLPSTEGQVVNKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRSL
SVLSPRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTPQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTSFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAALRELRQRKRDQRDKERERRLQEARGRPGEGRGNTATETTTRHSQRAADGSAVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFGVPNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYGQLSPQNRRQNFEVAFSSAETHADCPQLLDTEDMVRLREPDWKCVYTYIQEF
YRCLVQKGLVKTKKS

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FIGURE 6011

GCGGTGGCAGTTTGCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACG**ATG**AGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCACTACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCCGAACCTGTAACTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTCGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCACAAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAG**TGA**AACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCCATGATCAAGCACCCTACCCCAGTTCTTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAAACTGGAACTTCATTTGTCTTACCTTGGTGTCACCTTGTATGTCGAACTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

6513/6881
FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEGFDVAKTGDARIGFVGFPSV
GKSTLLSNLAGVYSEVAAYEFTTLTTVPGVIRYKGAKIQLLDLPGIIEGAKDGKGRGRQVIAVARTCNLILIVLD
VLKPLGHKKIIENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSELDAETVKSILAEYKIHNADVTLRSDA
TADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIIYKVPHCVPISAHHRWNFDDLLEKIWDYLKLVRIYTKPKG
QLPDYTSPVVLPYSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKVGKDHTLEDEDVIQIVKK

6514/6881
FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGGCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTTCCGTCCCCACGTGGGCACG
GCCCGGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACTCCGCGCAAGTTTGGGTTCCTGTTTTAGAACTGCCACCTAAGCCCCTCTTATT
TCATCTTTCCTGTGGTGGAAACCCCTGCCCCCACCGGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGGAAGGGGA

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FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTCAGAGAGGCCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

FIGURE 6015

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GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGCTACAGTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTCGAGGTGGTGGTGTTGGTGGCTTCCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTCATCGATCTATTGGGCTTCCTGATGTCCATTCAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTCGGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCAAGCTATGTTTGACCAC
ATTCCTGTTGGGGTGGGGTCAAAAGGTGTCATCCCAATGAATGCCAAAGACTTGGAGGAGGCCTTGGAGATGGGG
GTGGACTGGTCCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTCCTCAGTTGGGGACCCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTTCAATGAGTATGCTGCTAAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGGAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACTATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTTCCCTCCTCACCATCCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTCATGGAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGGAAGAGGCTCCTGAGTCCTAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATCAGCAAGAAAGCCATTAAACTGAGACCAATT
GCTGTGATCAAAGGATAGAACCTTGGACAGCAGGGCTGCCTGACACCACCAACCCTCTCTGAAGTGGAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAACTGCTCACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTCAGGGGCCCGTGCTTGTAAAATAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGGAAAGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAAATCTGTTAGGGATGGGTA
GATGTCAAACTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTCACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTCATGAAGAAAGTTCTGTTCAATAAGGTTTTGGAATGTTTC
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FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFVPNMQVEGVFYVNDALEKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGFDINCGVRLLRTNLDESDVQPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALEMGVDWSLREGYAWAEDKEHCEEYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAEIQVVDEIFNEYAAKKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRQLACARIAS
PEGQDYLKGMAAAGNYAWVNRSSMTFLTRQAFAKVFNTTPDDLDLHVIYDVSHNIAKVEQHVVDGKERTLLVHRK
GSTRAFPPHHPLIAVDYQLTGQPVLIGGTMGTCSYVLTGTEQGMTETFGTTCHGAGRALSRAKSRRNLDFQDVLD
KLADMGIAIRVASPKLVMEEAPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

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FIGURE 6017

CCCCGAGAGGCCCGGTTCCTTTAGGCCGCCTGCCCGCCTCCAGCTCTCGGGGTCGGCTCTAGGAGGCGCCCTCAG
GAGAGGGGCGGGCGCTCTATTCCAGAGACCGAGTGGCAGGGCGGCCACTGTGGCGGGGCTCTTTCCCCGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTCGTCGCCGTTTGGGGCGGGAGCTGCTCGGCCCCGC
CGCCGTCCCCGTCGCCGCTTCCGGGTCCAGGCCCCTCGGGCCGCCTGCCGCCGTC**ATG**AGGCTGCGGGTGCGGCT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCCGAGACGGAGCCGACGCTGGGGCATTTGCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAACTACAAGGATCCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCCTAATATACCTTCATCCACAGATTCAGAGCATTCTTCACTCCAGAATAATGAGCAACCCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATACAGGATGAACAACCAAGTGATTCATTCCAAGGACAGGCAGCCCAGTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAAATTTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGTATCAATCAGCTGACTGTTCTGATGCCAATGATGCCTTGATAGTGTTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGTATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTGAAAAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGTT
GGTCGTCCTCCCATTGGAACTGAAACTACGGATCTTCCGACTTCTGGATGTTCGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTCGTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTCAGAGTTCAAGACACAGATTGGAAAGAACTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCCATTCTATCCCAACCCCTTGCACCCTAG
GCCATTTCCTAGCTCCCGCCTTCCTCCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTTCCCTATGT
TGGAGACCCAATCAGTTCACTCATTCCTGGTCCTGGGGAGACGCCCAGCCAGTTTCCTCCACTGAGACCACGCTT
TGATCCAGTTGGCCCACTTCCAGGACCTAACCCCATCTTGCCAGGGCGAGGCGGCCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTCGGCCAACTGATGGCCGGCTGTCATTCATG**TGA**TTGATTTGTAATTTCATTTCTGGAGC
TCCATTTGTTTTTGTTTCTAAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTTCTGATTGT
GGTGTTGAGAGTTGCACTCCCAGAAACCTTTTAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGGTTCTCCTCTAGATTGAAG
TTTGTTTTCTGATGCTGTTCTTACCAGATTAAAAAAAAGTGTAAATTAAAAAAAAAAAAAAAAAA

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FIGURE 6018

MRLRVRLLKRTWPLEVPETEPTLGHLRSHLRQSLLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSTDSEHSSLQNNEQPSLATSSNQTSIQDEQPSDSFQGQAAQSGVWNDDSMLGPSQNFEAES
IQDNAHMAEGTGFYPSEPMLCSESVEGQVPHSLETLYQSADCSDANDALIVLIHLLMLESGYIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFTRQALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFL
YLRDFRDNTVRVQDTDWKELYRKRHIQRKESPKGRFVMLLPSSTHTIPFYPNPLHPRPFPSSRLPPGIIGGEYDQ
RPTLPYVGDPISSLIPGPGETPSQFPPLRPRFDPVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLSFM

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FIGURE 6019A

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CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAATCACCCTGTGCATTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTGTTGAATGAATACAGAACCCCGTTTGCTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAAACAGCAGATGGCTTCCCATATCCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAGAGAGAGAGT
TTGGGTCTTTCTCCTCTGTGCCTGCTCTCTCCAGAGAAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCCTGCTGGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTCAGAGACACCCAGTGGCCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCACGAGGGCTCCGCTCCGAGGACCCAGCGGCAAGCACCGGTCCCGGGCGCGCCCCAGCCCACCCACTCGCGTG
CCCACGGCGGCATTATTCCCTATAAGGATCTGAACGATCCGGGGGCGGCCCCGCCCCGTTACCCCTTGCCCCCGG
CCCCGCCCCCTTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGGCGGGCCCCAACAGCC
CGAGGCGGGGTCCCCGGGGGCCCAGCGCTATATCACTCGGCCGCCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGGCGGGCGCTCAGACGGCTTCTCCTCCTCCTCTTGCTCCTCCAGCTCCTGCTCCTTCGCCGGGAGGCCGCCC
GCCGAGTCCTGCGCCAGCGCCGAGGCAGCCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGGCAGCGC
GCCGGAGGCCAAGGTTGCCCCGCACGGCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGCGCG
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTGCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCGAGGCGTGCACATGCTCGCCCAGCCACCCCCA
GGACGCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGCTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTCACCAAGATGCCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGGCCTTAAGCTGGAGGTCAACAAGTACCAGTACCTGCTGACAGGTCG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCCTCTCCCAGCG
CAAGGGGCTGAACTATCGGTATCACCTGGGTTGTAACTGCAAGATCAAGTCCTGCTACTACCTGCCTTGCTTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCCAATTTCGGTTACCCTGGCTACCAGTCCAAACACTA
CGCCTGCATCCGGCAGAAGGGCGGCTACTGCAGCTGGTACCGAGGATGGGCCCCCCCGGATAAAAGCATCATCAA
TGCCACAGACCCCTGAGCGCCAGACCCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AACTCTTCCCAGATGATGACAATGAAATTAGTGCCTGTTTTCTTGCAAATTTAGCACTTGGAACATTTAAAGAAA
GGTCTATGCTGTCATATGGGGTTTATTGGGAACTATCCTCCTGGCCCCACCCTGCCCCTTCTTTTTGGTTTTGAC
ATCATTCATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCCTCTTCTTCGTGA
TAATATAATCTCTATTTTTTTAGGAAAACAAAAATGAAAAACTACTCCATTTGAGGATTGTAATTCCCACCCCTC
TTGCTTCTTCCCCACCTCACCATCTCCCAGACCCTCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACTTGCTGAAAGGCCAACCATTTCAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTGTCTGCATGTAAGAGTG
AGGGAGGGAAGGAAGGAACTACAAGAGAGTCGGAGATGATGCAGCACACACACAATTCCCCAGCCCAGTGATGCT
TGTGTTGACCAGATGTTCCTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTTCTTAGTTGGTGAAGA
CTTAAACATCTGCCTGAGGTCAGGAGGCAATTTGCCTGCCTTGTACAAAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCCTCTCCCTGCCTCCCACCAGACTTCCTCCTGGAAAACGCTTTGGTAGATTTGGCCAGGAGCTTTCTTT
TATGTAAATTGGATAAATACACACACCATACACTATCCACAGATATAGCCAAGTAGATTTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTTAGCTCACCTAGGGGGATATGTTTGTATACACATTTGCATATACCCACATGGGGACATA
AGCTAATTTTTTTACAGGACACAGAATTCTGTTCAATGCTGTTAAATATGCCAATAGTTTAATCTCTTCTATTTT
GTTGTCGTTGCTTGTTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTCATTTTAATTAAAATTTGAA
ATTCTGAACACCGTCAGCACCCTCTCTTCCCTATCATGGGTCATCTGACCCCTGTCCGTCTCCTTGTCCCTGCTT
CATGTTTGGGGGCCTTTCTTTAACTGCCTTCCTGGCTTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCCTGCCTGCCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGGAATTAAAATTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAGTTGTAGGGTTTCTGTTGTGTTTTTTTTTTTTTTTGAAATA
AAACTATAATATAAATTCTCCTATTAAATAAAATTATTTTAAGTTTTAGTGTCAAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGTCTCTTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTCATTCCACTTTAGGAAACAGAGCTGCCAA
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FIGURE 6019B

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TTGAAACAGAAGAAGAAAAAAAAAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGCACACACACAAGTGCCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTCATTACC
GTGTACCTTTCCCATTGTGGTCATGCCATTTGGCAGGGGGAGAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCCAGACTTGATGTTTTGGGATTGTCCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCCTGACCAACCTACACAAGTTCCCTCCCACAAGTGGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTCGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAACTTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCACATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTCACCCGTTCACTTACTGTATAATTTAAAATCATTTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTAAGAGAAAAATGAAACCCACATGCCGCCATTTTCCTGAATCAAATTCTGCAGTGGAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAACTAGTAACTGAGACTCCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAAGTTTAAACTACATTCATGTTCTTGTTCTGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATTCCAAGTTCTCGCTTCCTCCTTTGGGCATCTCTTCTGCCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCTCCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTGGAATAGCCCTGTCTAGGGCAAACTGTGGCCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCCAAGTGTTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTTATGAGAGACAAACATTATAAAAATCTGATGGCAAAAGCAAACAA
AATGGAAAGTAGGGGAGGTGGATGTGACAACAACTTCCAAATTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAACT
TGGAGAATAGTTTTTGCTTTGGGGGTAGAGGCTTCTTAGATTCTCCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCCTGAAACCCAGAAGTGATGGAGAGAAACCAACAAGAGATCTCGAACCCTGTCTAGAAGGAATGTATTTG
TTGCTAAATTTCGTAGCACTGTTTACAGTTTTCCTCCATGTTATTTATGAATTTTATATTCCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGGTTTTATTTCTA
TCAC
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FIGURE 6020

TCAACGCCTGCCTCCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGG**ATG**GAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTCAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTCAGAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTCATCCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCGAGCTGCTGGTGGCCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCCAGCTCTGGCGAGGGCCTGGCCTTCTTCACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCTCACGGGCACCAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCCAGAGGGAAGCCCCCACTCAACACCCGCTCCCAGGCTCCGCTTCTCCGATGGGTCCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATG**TGA**ATGCAGGCATGCTGGCTCCCAGGGCCAT
GAACTTTGTCCGGTGGAAGGCCTTCTTTCTAGAGAGGGAATTCTCTTGGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAAACTTCAGAGGGGGCGAAGGGGTCAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTTCCCCGTGGGCCATGGCAATTTTTACACAAACCTGAAAAGATGTTG
TGTCTTGTGTTTTTGTCTTATTTTTGTTGGAGCCACTCTGTTCCTGGCTCAGCCTCAAATGCAGTATTTTTGTTG
TGTTCTGTTGTTTTTATAGCAGGGTTGGGGTGGTTTTTGAGCCATGCGTGGGTGGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAAACAACATTGTCTG

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FIGURE 6021

MERPQPDSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

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FIGURE 6022

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGTCTCCCCTGGTTTGTGAAGTGCGGAAAACCAGAGG
CGCAGTC**ATGT**CGGGATTCGACGATCCTGGCATTTTCTACAGCGACAGCTTCGGGGGCGACGCCCAGGCCGACGA
GGGGCAGGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTCATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTCGTAGCCTGAAGTCGGACATGATGTCACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTCACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCCATTGGACCCGTACTTCATCATGCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGGTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGCCGTGACAGGGTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGCAGCTTTGCTGGGGCCGTGAGCCCCCAGGAGGAGGAGGAGTTCCG
TCGCCTGGCTGCCCTCCCAAATGTCTATGAGGTCATCTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGCTAGGGGACCCTGGGACAGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTC
TCCCATTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTC
GTCCCGGAATTTCATCATGGAGGGCGGAGCCATGGTCCTGGCCGATGGTGGGGTCGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACTCCCGCTGCTCCGTCCTGGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTCATGCCCACCATCTTGTCGCGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTCATCACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTCAGCAGAGGCTGCAGAGAAACTGAAGAACCGCTACATCATCATGCGGAGCGGGGCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTCAGGGGTGGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGCGAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAG**TGA**GTCGCGCCGCCTCACTGGACTCATGGACTCGCCCACGC
CTCGCCCCTCCTGCCGCTGCCTGCCATTGACAATGTTGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCCTGCTGCCTCTGGGCGCCCGCCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTCAGGT

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FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDAVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFGGTDMKKAIACLLFGGSRKRLPDGLTRRGDI
NLLMLGDPGTAKSQLLKFVEKCSPIGVYTSGKGSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAKAGITTTLNSRCSVLAAANSVFGRWDETKGEDNIDFMPTILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAIHKVLQLMLRRGEIQHRMQRKVLYRLK

FIGURE 6024

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GAGGTGCTGGGGGAGCAGCGTGTTTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTCATTTTACCTTT
CGAATTCCTGGGTATATCTTGGGGGGCTGGAGGACGTGTCTGGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTCAGAGGAAGATCCCTTGGAGGAGGCCCCGCAGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAATCTTTGTCGTCTGCATCTGGGTGCAGCAAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAGAAACGCTTCACTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAATCCTGCTGACTAGCGATGAAGCCTGGAAGAGATTTGTGCGTGTGGCTGAATTGCCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAAGTTTCCTCAAATCAGATGGAAGATTCAGGAGTCCATAGAAAGGCT
TCGTGTCATTGCAAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCCTGTCTGTCATTGGCGTTATGTTGGCACCATTTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACTTGATTTTGACGAAGCCACAAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACACGTGGGGCCCCCACCCGGATAGTGAGAAAAGTAGCCCGGAACCTGGGCAAGGCCACTTCAGGTGTCCTTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGCACAAGGGGGCAAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCCATATCCATCAGAGTCTAAAAGCAGG
CTAGGCCCAATTGTTGCGGGAAGTCAGGGACCCCAAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAACGTGGA
TTGTGAAGATTTCATGGACATTTATTAGTTCCCCAAATTAATACTTTTATAATTTCCTATGCCTGTCTTTACCGC
AATCTCTAAACACAAATTGTGAAGATTTCATGGACACTGATCACTTCCCCAATCAATACCCTTGTGATTTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTCAGCTGAGGAGGATGTATGTCACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTGTAGAGCATGTGTGTTTGAACAATATGAAATCTGGGCACCTTGAAAAAAGAACAGGAT
AACAGCAATTGTTCAGGGAATAAGAGAGATAACCTTAAACTCTGACCAACAGTGAGCCTGGTGGAACAGAGTCAT
ATTTCTCTTCTTTCAAAAGCAAATGGGAGAAATATCGCTGAATTCTTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTCGAGACTGTAGG
GATGAAATAAACCCCAGTCTCCCATAGCGCTCCCAGGCTTATTAGGAAGAGGAAATTCCCGCCTAATAAATTTTG
GTCAGACCGGTTGCTCTCAAAACCCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCCGAAACCTCATTA
GCAATTTTAATTTCTCCCCGGTCCTGTGTTCCTGTGATCTCGCCCTGCCTCCACTTGCCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCCTATTCATACACTCCCTCCCCTTTTGAAAGTCCCT
AATAAAAACTTGCTGGTTTTGCGGCTTGTGAGGCATCACGGAACCTACCGATGTGTGATGTCTCCCCTGGACACC
TAGCTTTAAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCCAACACTTAGGGAAAATAGAAA
AGAACCTACGTGACCATCGGGGCAGGTTCCCCGATACCCAATGACCCCAGAGCAGTGCAGCCACCAGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAACT
CAGTGTTAGGAACTTTGGCATCTGTAGCTGAGCACAGCAGGGGAGGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAACTGTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCCGGTTGGATGTCCTTCCAAGAATGGAATCCTTCCCTGGTGATGGTCTCTCACCCTGTCTTACC
AGCATCCACTCTCCCTTGTCCTCCCGGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGTAGTGTGACAGGTCCCCTTTAGGTTATTTAAGGGTGCATGTCCCCTGCTTGAACCCTGAAGGCCGGGTAATGA
GCCATTTCCATGGTGCCCAGCTGAGGACCAGGTGTCTCTGAGAATCCAAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAACTGAAAAGCAGTTTAGACATT
GGGGGAGGCTGGATCTCTCGAGCTGTCTTGCTGAGTGCCCTGTGTGTAAGTCCTAATAAACTTAGCTACTCGCCA
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FIGURE 6025A

<u>ATG</u>GCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTCAGGCCTGTTCTGTGTGGTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGAGAACACCAAGAAGGTCATCCAGTATCTGGCGTACGTGGCGTCCTCGCACAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACTCCTCCCGCTTCGGCAAATTCATTCGCATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCCTGTCCAATGGACACGTCACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCCAGAAGAGGAGCAAATGGGCCTGCTGCGGGTCATCTCAGGGGTTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTCACCAGAGGAATCCTCACCCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCCTTGGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGCTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACTCGTTTGAGCAGCTGTGCATCAATTACACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTCATCCTGGAGCAGGAGGAGTACCAGCGCGAGGGCATCGAGTGGAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCCGGGCATTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGAGCAG
GGCACCCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGGCTGATGAAGAACATGGATCCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACCAGGTGGCC
GGCATGTCGGAGACCGCACTGCCCGGGGCCTTCAAGACGCGGAAGGGCATGTTCCGCACTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGCAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCGTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTCATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTTGCC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCCTCCAGCGGAACTGCGCTGCCTACCTGAAGCTGCGGAACTGG
CAGTGGTGGCGGCTCTTCACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTCAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCGCCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAGAAACTGCTGGAAGACAGA
ATAGCTGAGTTCACCACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACTCCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCCAGCAGGAGCTCAGGTCAAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

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FIGURE 6025B

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CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACCGGCAGAAGCTG
AGCCTGAGCACCAAGCTCAAGCAGGTGGAGGACGAGAAGAATTCCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCCTCCATGCCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCCTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCGAGAGAAGGAG
ACCAAGGCTCTGTCGCTGGCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCCGCACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTTGGAGGTCAACCTGCAGGCCATGAAGGCCCAGTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACCGGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAACTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCCAGCGGGCCAACGCCTCCCGCCGGAAACTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCGAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTCGTGCCCCGCCGAATGGCCCGGAAAGGCGCCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAAACCTGCCGAA**TAA**
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FIGURE 6026

MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPIYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSKKDQGELERQLLQANPILEAFGNAK
TVKNDNSSRFGKFIRINFDVNGYIVGANIETYLLEKSRAIRQAKEERTFHIFYYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNIVFKKERNTDQASMPDNTAAQKVS
HLLGINVTDFTRGILTPRIKVGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVLRINKALDKTKRQGASFIGI
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGIL
ALLDEECWFPKATDKSFVEKVMQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL
HQSSDKFVSELWKDVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRVVFQEFRQRYEILTPNSIPKGFMDGKQACVLMIKALELD
SNLYRIGQSKVFFRAGVLAHLEEERDLKITDVIIGFQACCRGYLARKAFAKRQQQLTAMKVLQRNCAAYLKLRNW
QWWRLFTKVKPLLQVSRQEEEMMAKEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLQEQLQAETELCAEAE
ELRARLTAKKQELEEICHDLEARVEEEEERCQHLQAEKKKMQQNIQELEEQLEEEESARQKLQLEKVTTEAKLKK
LEEEQIILEDQNCKLAKEKKLLEDRIAEFTTNLTEEEEKSKSLAKLKNKHEAMITDLEERLRREEKQRQELEKTR
RKLEGDSTDLSDQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERA
SRNKAEKQKRDLGEELEALKTELEDTLDSTAAQQELRSKREQEVNILKKTLEEEAKTHEAQIQEMRQKHSQAVEE
LAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQGKGDSEHKRKKVEAQLQELQVKFNEGERVRTELADKV
TKLQVELDNVTGLLSQSDSKSSKLTKDFSALESQLQDTQELLQEENRQKLSLSTKLKQVEDEKNSFREQLEEEEE
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQELDDL
LVDLDHQRQSACNLEKKQKKFDQLLAEEKTISAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEELEDELQATEDAKLRLEVNLQAMKAQFERDLQG
RDEQSEEKKKQLVRQVREMEAELEDERKQRSMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLQAQMKDC
MRELDDTRASREEILAQAKENEKKLKSMEAEMIQLQEELAAAERAKRQAQQERDELADEIANSSGKGALALEEKR
RLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLNLERSHAQKNENARQQLERQNKELKVKLQEMEGT
VKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLKDVLLQVDDERRNAEQYKDQADKASTRLKQL
KRQLEEAEEEAQRANASRRKLQRELEDATETADAMNREVSSLKNKLRRGDLPFVVPRRMARKGAGDGSDEEVDGK
ADGAEAKPAE

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FIGURE 6027

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GAATTCGGCACGAGCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGGCCGGCCGAGGCCATTGCAGA
TTTTGGAAGATGGCAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGGAAGTCAATATGCTTATTTC
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGA
ATGAGATTTGCCCAGAGGAACCTCCGCAGAGACAAAGATCGTCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCACAGAAACCCCGAGACTCTTCAGTTGAAGTTCGTAGTGATTGGGAAGTGAAAGAG
GAAATGGATTTTCCTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACCACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCACCACCACAGACGACCCTGTCATCCGCAAGCTGGCAAAAACTCAGGGGAATGTGTTTGCC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCCTGGGATATTGTCGTCCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCCTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCCAGCAGTGCTTGAGAATGGGGAAGGAAAGATACAACTTCCCCAACCCAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTCATCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGCCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCCTCAAGGACCCCAACAAGCAGGTCATCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACTTAAACCAGTGATGTGGAGCTGGAGTTTGTCCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAACTTGCTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTAGTCTTTTAAAAAAAAAAAA
AAAAAA
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FIGURE 6028

MAKFMTPVIQDNPSGWGPCAVPEQFRDMPYQPFSKGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNRMRFAQRNLRRDKDRRNMLQFNLQILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYYDKAFDRITTRSEKPLRSIKRIFH
TVTTTDDPVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQRVGSKLFFDKRDNSDFDLLTVSETANEPPQ
DEGNSFNSPRNLAMEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDDIDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLDSQRGAVIATELKNNSYKLARWTCCALLAGSEYLKLG
YVSRYHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEEET

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FIGURE 6029

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GGGGGGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCGCAGCCCGAGTGTCGCCGCCATGGCTTCGCCGCAGCTCTGCCGCGCGCTG
GTGTCGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTCGAGGAGCGCCACATCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCGGGGCCGAGCATTTCGCGGAGTAC
GCAGGCCGCCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACTGCTTGATGGCGGCCTCCGCCACTGG
CTGCGCCAGAACCTCCCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCCGAGTTCCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCCAGGTGGTGGACTCCCGAGCC
ACTGGCAGGTTCCGCGGCACCGAGCCCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCCAGGTACCGTGAAC
ATCCCCTTCACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCGGCCC
GAGGATGTCATCTCAGAGGGCCGGGGGAAGACCCACTGAAGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTCACCAAGAGAGTGTTTCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATTCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACTCCGAGCTGCCCACCTGGTGCTGAGCTGGGGCCCCGCCTCCTTT
CTGTTTTATTTTTGAGGAAATAAAATAACCAAGTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 6030

MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTSPYDHM
LPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLLDGGLRHWLRQNLPLSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGIEPGHIPGTVNIPFTDFLSQEGLEKS
PEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWYMRARPEDVISEGRGKTH

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FIGURE 6031

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GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCTGGGAGAGACGAGCCATGAACCCCCCACA
GCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCCGGCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCGGCCCCCAGGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTCACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACACGTCCTTCCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCCTGGCCAAGAAGCTGCAGCTGGTGCGGAGGGTGGGGGGCGCCCCCCCGGAGGATGGCAT
CTCCCCCTGCACCCTCCCCGGCTCCACCGGCCATCTCCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACCGGGATGGTTCCTTCCCCTCTGAGCCCGGGCTTCGCCGCTCTGACTCTCTCTTGTCCTTCCGCCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTCATGAGCCTCCCAGAAGCCCCTGCAGCTGAGACTCCAG
CCCCCGCTGCAAACCCCCCAGCCCCTACTGCAAACCCCACGGGTCCTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCCAGCGCCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCCAGTGCCCAGCACAGTGCAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCTCACCTAACAGCTGGTTCCTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCCAGAGGCCCTGCCAAACTGACCACCTCCCCCGACTGCCACTCTGGACCTAATAGCTGTTCCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCCTTTGTGCCAGACCAAGCGGCCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTCACCTCCCAAAGGGACCGCCTGCCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCTGACAGCCGTCTCCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCCAGAAAGGTCAGGTATGACCTCCCGGGGAGGAATCCCACCTGCCTGTATACCCCAGACTTGCCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT
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FIGURE 6032

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GGGGGCCGGTGGCGGATGGAGCCCGCGATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCCC
CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCTCCA
GTCGCCACCCGGCTGCTGGCCCACAAGATCCAGTCCCCACAGGAGTGGGGAGGCGATCCAGGCCTTGACGGTGCTG
GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGCTCATC
AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGGAGCTCCTCTAC
AGCTGGACAGTGGGCCTGCCCGAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCCTTCCTCCTCCACGGCCGAAGAATGTGATCTTTGAA
GATGAGGAGAAATCCAAGATGCTGGCCCGCCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
GTGAACAACAATGTGAAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
GAGGACCTCATGAAGGAACTGTACCAGCGCTGTGAGCGGATGCGGCCCACGCTCTTCCGACTGGCGAGTGACACA
GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAG
CAGCTGGTGCGGGGTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
GATCTCTCAGGCCTGGATCTCCCGCCTGCGGGCACCACCTACCCAGCTATGCCCACCCGCCCTGGCGAGCAGGCC
AGCCCTGAGCAGCCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAGTGACCCCACA
CCCCCCTTCAGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCGTCGGATGCCACTGAGCCCCCAGCC
CCTGCTCTGGCCCAGGCCCCCAGTATGGAAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
GACGACCTAGACCTCCTGGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCCGGAATCCCAGCAAGTGCGGTGGGAG
AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCCAGCTCC
AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCCAGGCCTCCGCAGCAGCCCGTACCAACCGAGCTC
TCACTGGCCAGCATCACTGTGCCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGACTGTGTATGACCAG
CACGGCTTCCGCATCCTCTTCCATTTTGCCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGTT
TCCATGCTGAGCACCGCCCCCCAGCCCATCCGCAACATCGTGTTCCAGTCAGCTGTCCCCAAGGTTATGAAGGTG
AAGCTGCAGCCACCCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCACCCAGGTC
CTGCTGCTTGCCAACCCCCAGAAGGAGAAGGTTCGCCTCCGCTACAAGCTCACCTTCACCATGGGTGACCAGACC
TACAACGAGATGGGGGATGTGGACCAGTTCCCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTTGTTG
CCCATGGCCATTCACCCCCAGGCCTGGTGCTTCTCCCCACACCCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
GCTCCGGCCCCGCCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGGAAGAACTTGGGTCATGGGGAGGAAGCACAGCTGTTGGGG
AAGGGCCAGGACCTCAGGCCCAGCCCCAACCCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCTTATG
GGAAGGCCCAGCCATAACTCGGGGGCCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
ACTGGGGGGTGACGCCTACACCCCCAGCTATTTGCACTCTGGTGTGTGGTTTGACTCTGCTTTTCTTCCGGATTG
GCCCTGTGGTCACAGCCTCAGGGGGCCAGGCTGGGGGAACCTCACCTGGCCCGTACTCCTGGGGGTTTCCCTTTG
CCATTGGGCCCCCTGAGGGACTGTGGGGGCTCAAGGGTAATGCCAGAGGCCCATGGCCCCAGCGAGGGGCTGTGG
GGCACCTAGAGTTCTCGGTGTGTCTCCTTCATTCATTGGCCTCTGCTGGGGCCTCCTATGGGTGTCTTACGTCTG
TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTTATGAAAATAAAACGT
CGTTTTTCCTGGAAAAAAAAAAAAA
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FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWEAIQALTVLETCMK
SCGKRFHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDNDEALAEILQANDNLTQVINLYKQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYPAMPTRPGEQASPEQPSASVSLLDDELMSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQQPT
PRLTLRDLQNKSSSCSSPSSSATSLLHTVSPEPPRPPQQPVPTELSLASITVPLESIKPSNILPVTVYDQHGFRI
LFHFARDPLPGRSDVLVVVVSMLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPAFNPIVHPSAITQVLLLAN
PQKEKVRLRYKLTFTMGDQTYNEMGDVDQFPPPETWGSL

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FIGURE 6034

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CTGCAGGTAGAACAGCGGCTGGAGCCGGCCAAGCGGGCAGCCCACAACATCCACAAGCGGCTGCAGGCCTGTCTG
CAGGGCCAGAGCGGGGCAGACATGGACAAGCGGGTGAAGAAGCTTCCCCTCATGGCTCTGTCCACCACGATGGCT
GAGAGCTTCAAGGAGCTGGACCCTGATTCCAGCATGGGGAAGGCCTTGGAGATGAGCTGTGCCATCCAGAATCAG
CTGGCCCGCATCCTGGCCGAGTTTGAGATGACCCTGGAGAGGGACGTCCTGCAGCCACTCAGCAGGCTGAGTGAG
GAGGAGCTGCCAGCCATCCTCAAACACAAGAAAAGCCTCCAGAAGCTCGTGTCCGACTGGAACACACTCAAGAGC
AGGCTCAGTCAGGCAACCAAGAATTCAGGCAGCAGTCAAGGCCTAGGAGGCAGCCCGGGTAGTCACAGCCATACG
ACCATGGCCAACAAGGTGGAGACGCTGAAGGAGGAGGAGGAGGAGCTGAAGAGGAAAGTGGAGCAATGCAGGGAC
GAGTACTTGGCTGACCTGTACCACTTTGTTACCAAGGAGGACTCCTATGCCAACTACTTCATTCGTCTCCTGGAG
ATTCAGGCCGATTACCATCGCAGGTCACTGAGCTCGCTGGACACAGCCCTGGCTGAGCTGAGGGAGAACCACGGC
CAAGCAGACCACTCCCCTTCGATGACAGCCACCCACTTCCCCAGGGTGTATGGGGTGTCGCTGGCAACCCACCTG
CAAGAGCTGGGCCGGGAGATTGCCCTGCCCATCGAGGCCTGCGTCATGATGCTGCTTTCTGAGGGCATGAAGGAA
GAGGGTCTCTTCCGTCTGGCTGCTGGGGCCTCGGTGCTGAAGCGTCTCAAGCAGACAATGGCCTCGGACCCCCAC
AGCCTGGAGGAGTTCTGCTCCGACCCGCACGCTGTGGCAGGTGCCCTCAAGTCCTATCTGCGGGAGCTGCCAGAG
CCTCTGATGACCTTCGACCTCTATGATGACTGGATGAGGGCAGCCAGCCTGAAGGAGCCAGGGGCCCGGCTGCAG
GCCCTCCAAGAGGTGTGCAGCCGCCTACCCCCCGAGAACCTCAGCAACCTCAGGTACCTGATGAAGTTCCTGGCA
CGGCTGGCCGAGGAGCAGGAGGTGAACAAGATGACACCCAGCAACATCGCCATAGTCCTGGGACCCAACTTGCTG
TGGCCACCTGAGAAAGAAGGGGACCAGGCCCAGCTGGATGCAGCCTCCGTGTCTTCCATCCAGGTGGTGGGCGTC
GTCGAGGCGCTGATCCAGAGCGCAGACACCCTCTTCCCTGGAGACATCAACTTCAACGTGTCAGGCCTCTTCTCA
GCTGTTACCCTCCAGGACACAGTCAGTGACAGGCTGGCCTCTGAGGAACTTCCGTCCACTGCCGTGCCCACCCCA
GCCACCACCCCGGCTCCGGCTCCGGCTCCAGCTCCAGCTCCGGCCCCAGCCTTGGCTTCAGCAGCTACCAAGGAA
AGGACAGAGTCTGAGGTGCCTCCCAGACCAGCCTCCCCCAAGGTCACCAGGAGTCCCCCGGAGACAGCTGCCCCA
GTGGAGGACATGGCTCGGAGGACCAAGCGCCCGGCGCCAGCCCGGCCCACCATGCCGCCCCCCCAGGTCTCCGGC
TCCCGCTCCTCCCCTCCAGCCCCGCCCTTGCCCCCTGGCTCTGGCAGCCCTGGGACCCCCCAAGCCCTGCCCCGA
CGTCTGGTTGGCAGCAGCCTCCGAGCCCCCACAGTGCCACCCCCGTTACCCCCCACACCCCCTCAGCCTGCCCGG
CGCCAAAGCCGGCGTTCACCAGCCTCCCCCAGCCCGGCCTCCCCAGGTCCAGCCTCCCCCAGCCCAGTCTCTTTG
AGTAACCCTGCACAGGTGGACCTGGGGGCTGCCACAGCAGAGGGAGGAGCCCCTGAGGCTATCAGTGGGGTCCCC
ACTCCCCCAGCTATCCCCCCTCAGCCCCGCCCCAGGAGCCTTGCCTCAGAGACCAACTGAGTGGCTGGTTTCTCC
CTAAGCAGCCCTCAGCACCCCCTCCCTCCCCACCTGGCCCTCCCAGGACAGCTCTCGCCCCCCACAAAGGGGCAT
GGGCCTCCAGCCTTTGCCCACAAGTGCCTCAGTGCCCACTGGGTCGGCCCCCATGGCCAGGAGGGCTCAGGACAA
TCCTCTATTTCCTGACCTTTTCCTCGTCCACCCTGGGCTTGGGGACCCCCCCACCGGACTCTCCACTCTCCGGCA
GGTCCTAGGGGAGCCACCGGAAGGAAGGAGAGGTTTGCCTGCTCCTACGGGACTGATTCTTCTCTTGCCGACATG
TTTTTTGTAAGGCTGGTAAATAAATTATTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAACTCGGG
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FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIQNQLARILAEFEMTLERDVLQPLSRLSEEELPAILKHKKSLQKLVSDWNTL
KSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDTALAELRENHGQADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRLPPENLSNLRYLMKFLARLAEEQEVNKMTPSNIAIVLGPNLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLFSAVTLQDTVSDRLASEELPSTAVPTPATTPAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPKVTRSPPETAAPVEDMARRTKRPAPARPTMPPPQVSGSRSSPPAPPLPPGSGSPGTPQAL
PRRLVGSSLRAPTVPPPLPPTPPQPARRQSRRSPASPSPASPGPASPSPVSLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPQPRPRSLASETN

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FIGURE 6036

GGCACGAGGGCCGTGCCCGCGGAGAGAGCGCGGCGCGGGAGGCCGGCGGCCGGCCGGCTGC**ATG**GCGCGCTGCGA
GAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCCTGTTCGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCCGGGCCTCCGGA
CGCGCCGGGCGCCGTGTTCGTGCTGGGCGGCGAGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGCCCCGCGCGTGCGCGCCGTGCTTGTGGGCTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCCGAGTGCCTACTCGTGGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCCAGCCCCTACATGTTCGAGTGCATCACGGAGAACTTCAGCATCGACCC
CGCACGCACGCTTATGGTGGGTGACCGCCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCCTAGAAGAGGCCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGAC**TGA**GCCCACTGCACCTGCAGCCACAG
GCCCACCCCTCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTCACGAGCCATGTTAAGCACAACCGGCTCC
TTGGTCCAGTTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGAGGGCCCTTGCAACCCCCTCCCAGCAG
TGGCTGGGCACTCTTTGCTGCCCCAGAAGCTGGTCCCCTATGGATTCATCTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCCTCAGGTCCTGGCCCTTGGGTCCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCTTATTGTCCTGGGTGGACCAATCCAAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCCTGTGGGGTACCAGTTTAGGTTCCTAAGTAATAGTGACCCTTTCACGTCCTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCCTAAAGACACC
TCTCCTTTACAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCCTGGTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTCGTGTCCCCCTGTGCGGTCAGTGTTTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGGCTGGGCCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6037

MARCERLRGAALRDVLGRAQGVLFDCDGVLWNGERAVPGAPELLERLARAGKAALFVSNNSRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGLRAELRAAGLRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGSLAAAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLETDILFGHRCGMTTVLTLTGVSRLEEAQAYLAAGQHDLVPHYYVESIADLTEGLED

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FIGURE 6038

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ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGCGCCTGCCCGGGAACATCCTCCTGGACTCAATCATGGCTT
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTGCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGACTGAAATCAGCCAGCCCATGGCCCCCAATAAAGGCAGCTGCCTCTGCTCCCCT
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FIGURE 6039

MACGLVASNLNLKPGECLRVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLPDGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

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FIGURE 6040

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGCGGCGGGCGGCCGAGAGGGG
CGGCGGCGGCGGCGGCGGCGGGGGTTCCCGCGCCGCGGAGCCCGGCCCGAGAGCCGCGTCCACGTTCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCC**ATG**ACGCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTCGGCCATGACCTCAGGCATCCGGCGGAACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTCACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCTTGGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGCAGCGGGCCCGCACCCCAGCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGCCACAGACAGCAGGACCCCAGAGGTGCCTGCTGGTGAGGGGCCGCGCCGGGGCCTGGGTGCCCCCCT
GACTGAGGACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCCTGCG
GGAGAATAAGCGGGTGCCCCTCACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTCAGGCTCTTCGGGCCCAGCTGGAGGCGTGGCGTCTCCAAGGGGAGGCTCC
TCAGAGTGCACTGAGATCCCAGGAGGATGGCCACATCCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCGGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCCTGTCAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACTCCAGTACCTAAAGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTAGAGGTCCCGCCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCCTCTGTGGGCCACACGTGCACTTGCACCCACCACACACACACACACAC
ACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCCTCGCACTGGGTCTCACCTTGCACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTTATATAGATTTTTTTCCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAAAAAAAAAAAAAGCAATTCC
TGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCCAGAGGTCTGGCGGAGGCCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCCTGCCCTACCTCCTACTAACACTTCCTGCCCCATTTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAAGGTGTTTCTCTTCTGCTCCCTGAACCTCTTAACTTAATAAAACGTTCCAGCAGCT

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FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPPSPSLTTTSTSQWKKHWFVLTDSSLKYYRDSTAEEADELDGEIDLRSCTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFEATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQQVMEELQRHHERELQRLQQEKEWL
LAEETAATASAIEAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQSDVEALKRELQVLSEQYSQKCLEIGALMRQ
AEEREHTLRRCQQEGQELLRHNQELHGRLSEEIDQLRGFIASQGMGNGCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQKDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

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FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATTCAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAAACCCAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCCTATTTTCTGTAAATAATTTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCT
TTTGCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTGTTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGGAAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCCTTCTCATTTTTGTTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATTCTCTTGTTAAACCGGAGTGAAAACTTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCCTCAGTGTGCGCTGTTGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCCTAGGAA
GACTTTTCTTTTCCTCTGGATTTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTGGTGGGGCTGCGGCC
ACTTAAAACCTCCCGATCTCTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTTGGGATTTGCTAAGTAGTTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTTGTGTATATATACATATCTAGGCTAGTACTTAGTTTCACACCCGGGAGCTGGAGAAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGCGCGTCCCCCCCCCACCCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAAATTTTGCTGTCTTTGTAATTTTAAAACTTTAAAATAAATTGGAA
AAGGGAG

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FIGURE 6043

ATGACCGAGAATTCCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCTTTTTTAAACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAAACTTTAAAATAAATTGGAAAAGGGAG

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FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGENADSQIKLSIKRL
VTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFKKTKKEIKKVATPKKASKPKKAASKAPTKKPKATLF

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FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCC**ATGT**CTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACTTCATCCAGTATTTCCACAAAACTGTCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCGAG
GCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTCCTGCTCCCCTTGAACTACCCAACCAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTCATAGTGTCCTCAATGTCCTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAACTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACC
ACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAACAAGCAGAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTCACCTCCAG
CTGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACTCCTGCCCCAAGTTCCTGTCGCCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCCAGCTTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACAGAGCAGGAGTTCCGGATCCAG
CTTCTTGTCTTCAAACACAAGATGAAGAACCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTCAG
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCCTGAAGAAGATGGGACAGAGACCT
TGATGATATTCACACACATTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTTCAAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAAA

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FIGURE 6046

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVIPEVIKNFIQYFHKTVSDLIDQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDAVFLILYKELYYRHIYAKVSGGPSL
EQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNVLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRLHSLLGDYYQAIKVLENIELN
KKSMYSRVPECQVTTYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKGDPQVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVFSDE
VQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDFFIRQIHKFEELNRTLKKMGQRP

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FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGCCGCGGGGTCATGGCTGGGCCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGCTACCGCGGCGTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCCGACCTGCTAGATTTTGATTCGCTTTCCAAGGACAA
TGTCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCCAGTATTACAACCACTTCTG
CAGTCCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGCACCCTGTTCCCCGCCGTCTGTAGCACCCAC
TCCAGTGGAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTCAGAGCAGGGCACCGGCCA
GACCCCCAGCAGCACGTGCGCAGCCTGCCAGCAGCATGTGCACTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTCGGCGGTGCTCCAGCACCCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGCAGAACACTGTGCCAGGCTGGGCCCGGGGACACGGTCGGGGACCAGGCCTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAGGCCAGCCCTGAGGCCCGGCCGCAGATCCCTACCAA
GCCCCGGGTTCCTGGCAAACTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCCACCCCTGCCCCCAGGAAGGC
CTCTGAGAGCACCACCCCAGCACCCCCCACGCCCCGGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAGCCCCCAGGAAGGACCCCCATGGATCACGCTGGTGCAGGCAGAACCAAAGAAGAAGCC
AGCCCCACTTCCCCCAAGCAGCAGCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTCGTCTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCCAAGAGCTCCTCAGAGCCTGCTGTCCATGCCCCTGGTACCCCTGGAAACCCTGTCAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAACTAGTGGAGCCTAGAGTGGAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGCAGCTCAGGTCCCCAGCCAGCCAAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCCTCCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCCTGGACACGGCTTTCCACTCATCAAACGCAAGGTCCAGGCTGACCAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATACCATTGAGCGCCGGCTGGATGCCCTGGAGCACCGTGGGGTGCTGCTGGAGGAGAA
GCTGCGTGGCGGCCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGCGGCGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGGACCGGGCCCGGGAGAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAACAGCACGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCCTCCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTTTCTTCTCCGAGCCCCAGG
·CAGCGGTGATTCAGCCCTGCCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAAATAGGG
TCCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCCTCACCCTGCCCAGCCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCCTCCAGGGTTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGTCTTCCTGTCCTGTGCAGGCGCCCTTGGATCTCAGTTTCCCTCACTCA
GGAACTCTGTTTCTGAAGTCTTCAGTTAAGTTTGAGTTTATGACTGAGTGGCCTGTACTGTCAGACGTGAATGGG
CCTGACGGGCAAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGCTCTGTTAGCTGCTCCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTTGTCAGGTAGGAAGGGTGCACTTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCCGGTCCAGGGAAGAGGCTCGCTCCC
GCCCATGGTCATCACTGGTCTGTCTGCTCTGTTGTCTGTTCTTTCCCTGACTCCCTCCCACCGAAGGCCTGATGG

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FIGURE 6047B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAACTCTCGAGGAGTTTCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCCTTCCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACCGCCTGCCACTGGGCA
GGATCCCTTTCCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTCAGGAGACAAAGCTGGCAGGGGCAGGGGTGAACTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCGGTGTTGCCAGATCCTTTGTCATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTGAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATCCTC
CTGCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTGTATTTTTAGTA
GAGACGGGGTTTCACCGTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCGGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCCTGGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACTGTTCCCATTAGATTGCACCCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTTACAGGGCCGTTTTATTCTGCAAACC
GAAACTTGGGTCATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTCAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTCAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTCACGCGGCACATGCAGGGATTGGAACTCCCAGGCCAG
GGCTCTAGGTCGCTCCCACCTTTTCATGTTTCTTTCTGTGGCCATGGGTATAGTGGAAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGGTTGTGGTATCTTGTTGAGACTTAGTTTTC
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

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FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDSLSKDNVFENNRLAFEVAEKELG
IPALLDPNDMVSMSVPDCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPTPVEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVHLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGPGT
RSGTRPGPFSQPKQQHQQQLAEDAKDVPGGGPSSSAPAGAEADGPKASPEARPQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQQENLVEQAGSSSLVNGRLHELPVPKPRGTPKPSEGTPAPRKDPPWITLV
QAEPKKKPAPLPPSSSPGPPSQDSRQVENGGTEEVAQPSPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKKRPAPRAPSASPLALHASRLSHSEPPSATPSPALSVESLSSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSTNSSLASSGELVEPRVEQMPQASPGLAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVPSPGSSSPQLQVKSSCKENPFNRKPSPAASPATKKATKGSKPVRPPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRLDALEHRGVLLEEKLRGGLNEGREDDMLVDWFKLIHEKHLLVRRESELIYVFKQQN
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVLMQELVTLIEQRNAIINCLDEDRQREEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

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FIGURE 6049

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GTCCGGCCAGGGTGGTTGGTGGTAAGGATTCAGGCTCCGTCCTAACGAGGCCGTGGCCTGAGGCTCAGGGCCCCC
CGCCCCTCCCTCCCAGCCCACCAGCGTCACCTCCCAGCCCCGAGCTGGACCGCACACCTTGGGACACGGTTTTCC
ACTTCCTAAGGACGAGCCCCAGACTGGAGGAGAGGTCCGAGGAGGTGGGCGTTGGACTCTTTGCGAGGACCCCGG
CGGCTGGCCCGGGGGAGGCGGCCGAGGCGGCGGCGGCGGCGGCCGGGGGCGACATGGCGGAGGAGCAGGACCTAT
CGGAGGTGGAGCTGAGCCCCGTGGGCTCGGAGGAGCCCCGCTGCCTGTCCCCGGGGAGCGCGCCCTCGCTAGGGC
CCGACGGCGGCGGCGGCGGATCGGGCCTGCGAGCCAGCCCGGGGCCAGGCGAGCTGGGCAAGGTCAAGAAGGAGC
AGCAGGACGGCGAGGCGGACGATGACAAGTTCCCCGTGTGCATCCGCGAGGCCGTCAGCCAGGTGCTCAGCGGCT
ACGACTGGACGCTGGTGCCCATGCCCGTGCGCGTCAACGGCGCCAGCAAAAGCAAGCCGCACGTCAAGCGGCCCA
TGAACGCCTTCATGGTGTGGGCTCAGGCAGCGCGCAGGAAGCTCGCGGACCAGTACCCGCACCTGCACAACGCTG
AGCTCAGCAAGACGCTGGGCAAGCTCTGGAGGCTGCTGAACGAAAGTGACAAGCGCCCCTTCATCGAGGAGGCTG
AGCGGCTCCGTATGCAGCACAAGAAAGACCACCCGGACTACAAGTACCAGCCCAGGCGGCGGAAGAACGGGAAGG
CCGCCCAGGGCGAGGCGGAGTGCCCCGGTGGGGAGGCCGAGCAAGGTGGGACCGCCGCCATCCAGGCCCACTACA
AGAGCGCCCACTTGGACCACCGGCACCCAGGAGAGGGCTCCCCATGTCAGATGGTAACCCCGAGCACCCCTCAG
GCCAGAGCCATGGCCCACCCACCCCTCCAACCACCCCGAAGACAGAGCTGCAGTCGGGCAAGGCAGACCCGAAGC
GGGACGGGCGCTCCATGGGGGAGGCGGGAAGCCTCACATCGACTTCGGCAACGTGGACATTGGTGAGATCAGCC
ACGAGGTAATGTCCAACATGGAGACCTTTGATGTGGCTGAGTTGGACCAGTACCTGCCGCCCAATGGGCACCCAG
GCCATGTGAGCAGCTACTCAGCAGCCGGCTATGGGCTGGGCAGTGCCCTGGCCGTGGCCAGTGGACACTCCGCCT
GGATCTCCAAGCCACCAGGCGTGGCTCTGCCCACGGTCTCACCACCTGGTGTGGATGCCAAAGCCCAGGTGAAGA
CAGAGACCGCGGGGCCCCAGGGGCCCCCACACTACACCGACCAGCCATCCACCTCACAGATCGCCTACACCTCCC
TCAGCCTGCCCCACTATGGCTCAGCCTTCCCCTCCATCTCCCGCCCCCAGTTTGACTACTCTGACCATCAGCCCT
CAGGACCCTATTATGGCCACTCGGGCCAGGCCTCTGGCCTCTACTCGGCCTTCTCCTATATGGGGCCCTCGCAGC
GGCCCCTCTACACGGCCATCTCTGACCCCAGCCCCTCAGGGCCCCAGTCCCACAGCCCCACACACTGGGAGCAGC
CAGTATATACGACACTGTCCCGGCCCTAAAGGGGGCCCTGTCGCCACCACCCCCGCCCAGCCCCTGCCCCCAGC
CTGTGTGCCCTGTTCCTTGCCCACCTCAGGCCTGGTGGTGGCAGTGGAGGAGGCTGAGGAGGCTGAAGAGGCTGA
CAGGTCGGGGGGCTTTCTGTCTGGCTCACTGCCCTGATGACCCACCCGCCCCATCCAGGCTCCAGCAGCAAAGCC
CCAGGAGAACAGGCTGGACAGAGGAGAAGGAGGTTGACTGTTGCACCCACACTGAAAGATGAGGGGCTGCACCTT
CCCCCAGGAATGACCCTCTATCCCAGGACCTGAGAAGGGCCTGCTCACCCTCCTCGGGGAGGGGAAGCACCAGGG
TTGGTGGCATCGGAGGCCTTACCACTCCTATGACTCCTGTTTTCTCTCTCACAGATAGTGAGGGTCTGACATGCC
CATGCCACCTATGCCACAGTGCCTAAGGGCTAGGCCACCCAGAGACTGTGCCCGGAGCTGGCCGTGTCTCCCACT
CAGGGGCTGAGAGTAGCTTTGAGGAGCCTCATTGGGGAGTGGGGGGTTCGAGGGACTTAGTGGAGTTCTCATCCC
TTCAATGCCCCCTCCCTTTCTGAAGGCAGGAAGGAGTTGGCACAGAGGCCCCCTGATCCAATTCTGTGCCAATAA
CCTCATTCTTTGTCTGAGAAACAGCCCCCAGTCCTCCTCCACTACAACCTCCATGACCTTGAGACGCATCCCAGG
AGGTGACGAGGCAGGGGCTCCAGGAAAGGAATCAGAGACAATTCACAGAGCCTCCCTCCCTGGGCTCCTTGCCAG
CTCCCTCTTCCCTTACTAGGCTCTATGGCCCCTGCTCAGTCAGCCCCACTCCCTGGGCTTCCCAGAGAGTGACAG
CTGCTCAGGCCCTAACCCTTGGCTCCAGGAGACACAGGGCCCAGCACCCAGGTTGCTGTCGGCAGGCTGAAGACA
CTAGAATCCTGACCTGTACATTCTGCCCTTGCCTCTTACCCCTTGCCTCCCAGTGGTATTTGAATAAAGTATGTA
GCTATATCTGCCCCTATTTTCCTGTTCTGCAGCCCCCCAAATCCACATGTAACTCATTACTGTCTCCTGTTATTT
ATCTCAGTAGTCCCCTCTCCTAGCCACTCTAGCCCCTATTAACTCTGCATTAAGCATTCCACATAATAAAATTAA
AGGTTCCGGTTAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 6050

MAEEQDLSEVELSPVGSEEPRCLSPGSAPSLGPDGGGGGSGLRASPGPGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLVPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLNESDK
RPFIEEAERLRMQHKKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDHRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPST
SQIAYTSLSLPHYGSAFPSISRPQFDYSDHQPSGPYYGHSGQASGLYSAFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

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FIGURE 6051

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CTGGGGGTCCGTTCCCCAACTTCCTCGGCGCTCCGGACTCCCAAGTCTCCGCCGGACCCTCCTTTGGATATTCCT
CGTGTCTCCGATTCTGAGAGAGGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGCAGAAGATGCAGTTCTTTGG
CCGCCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTTCTCTAACCCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCCTGGTCAACCCCAGGAACTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCCTTCTATGAGAGCTCCCCTCAGGTCCTGCACACTGA
GGTCCTGCAGCACCTGACCGACCTCATCCGTAACCACCCCAGCTGGTCAGTGGCCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGCTTCCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTGACAATTCTCAGGTGCTGCAGCTCCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGCTGCTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGCTGAA
ACGGGGCTGCAACGTGAACAGCACCAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGCTGCTGACCCACGGGGCCAACGCGGATGCCCGCGGAGAGCACGGCAACACCCCGCTGCA
CCTGGCCATGTCGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGGACACCCCGAA
TGACTTTGGGGAGACTCCTACATTCCTAGCCTCCAAAATCGGCAGACTTGTCACCAGGAAGGCGATCTTGACTCT
GCTGAGAACCGTGGGGGCCGAATACTGCTTCCCACCCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAAGAGCTCAGCCCCCACCGATCAGCCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGCCCGGAAGCCAGCGTTCATCCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCACCT
GCTGTGCCTGGATGGAGGAGGAGTGAAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCCTACATGCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCGGGGCCCCTGGAGGAGTTCCTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTCAGGAAACC
CAAGGTGATGCTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACTCCACCTCTTCCGGAACTACGATGCTCC
AGAAACTGTCCGGGAGCCTCGTTTCAACCAGAACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGCCCGAAGCAGCGGGGCAGCTCCTACTTACTTCCGACCCAATGGGCGCTTCCTGGACGGTGGGCT
GCTGGCCAACAACCCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAAGTGCCTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAACTGGGCAAGAT
GGTGGTGGACTGTTGCACGGATCCAGACGGGCGGGCTGTGGACCGGGCACGGGCCTGGTGCGAGATGGTCGGCAT
CCAGTACTTCAGATTGAACCCCCAGCTGGGGACGGACATCATGCTGGATGAGGTCAGTGACACAGTGCTGGTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGCGAGGAGTTCCAGAAGCTCATCCAGCTGCTGCTCTC
ACCCTGAGGGTCCCCAGCCTCTCACCGGCCCCAGCTGACCTCGTCCATTCAGCCCTGCCAGGCCAAGCCCAGCC
ACTGCCCTCCCGGGCAGATCTGGGCCCAGGCACCTCTGAGTCCATAGACCAGGCCTGGGAGAATGCCAAGCTGCC
TGCCCGAGGCTGGTCCTGAAGGCCTGTCTCCCACTAACCCCGCCTTCCAGCACTTTCTGTCATTCCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCTTTCCCTGACTGTCAAGGACAACTGACTCCCCCATCAGCTCAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCCAGCAAGGGCACTCCCAGGCTTCCTGGTGGGTGCAGCCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCCACCCCATCAGCTGGGAAAGCCCAGGCCGCAGGAGTGGGATGCCCGTT
GGACTTTGCCCCTCACACTGGCCCAGCCCCTCACACTGCCCCACCCCGAGAACCCTCAGCTCTCAAAGGTCACTC
CTGGGAGTTTCTTCTTCCCAATGGAAGTGGCTTAAGAGCCAAAACTGAAATAAATCATTTGGATTCAAGTTC
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FIGURE 6052

CTTACAACTCCGCGCGGCCTCGGCCCCCTGCGCCGCCCGCCCCACAACAAAACTCAGCGCAGCGCTCCCGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGGGCCCAGAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAAC**ATG**TCTGTGGATCCCCTATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTCGGACGAGGCGCTGATGGGGCTGTCGGTGCGCGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCGAGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCGCGGGCCCGCCACGCTCGTGGCGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGT
CTGGCCCCGCCCACGGCCCGGACCCCGCCCACGGCCCGGCCTCCTGCTCC**TAG**TGCCCGCCCCCGCCATGCCTCA
GCCACGCCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCCTGAGCGCCGCCTCTGTGCCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCTTGGTGCACACACATTCCCTTCGTGGGCCCTGTCTTCCTCTTGCAGCCCCCAAACTGGGAC
CGAATGACCCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGGAAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCCTCCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCCTGCTGAGAAATTGCACTGAAGAGATGCCCCCACCTCTGGTTGGGCCTGGGGGT
GCCTGGCCTTCCGAAACTAAAAGAGTGGGTGGGAAGACTAGTGAAACCCAGTTCACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTTGGGACCAAAACCTGGGTGTCCTCACTGCTGAGTCCAGCCATGGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAAT
AGGGAGACAAGGAGACAGACCCTGCAGTCCTACTACAGTCTGGAGTGGGGTCCTAAGAAGAAGGGTCCCACCTCA
ACCCCTGTCAGTGTCCACTGTGGGGTGGGGGCTGACCCCTGCCTTTGATTGTCATTCTCCTGGGAAGCCCAGTCT
CAGTCCCTCCCCCAACACTGTCCACACTGCCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCGAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGAGACCAG
CCTGGACAACATGGTGAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCCAGAAGGCAGAGGTTGTAGTGAGCTGAGATCG
CACCACTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAAAGTTAAAAAATATTGCCCGGCTC
CTAGAATTTATTTATTTCCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAATAAAG
TCAAATTCTTTCTTTTTCCACAGAAAAAAAAA

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FIGURE 6053

MSVDPLSSKALKIKRELSENTPHLSDEALMGLSVRELNRHLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

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FIGURE 6054

CGCCGGCGGCGGCGGAGACTCCGGGGCTGCGGCGCCGCCCGCCCCGCCCGCAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCCACGACCGCAGCAGCC
TCGCCCAGCGTCTCCGTGATCCCCGAGGGCAGCCCCACTGCC**ATG**GAGCAGCCTGTGTTCCTGATGACAACTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCCTCTTCATCGTGCCCATCTACGCCTTTGACTCC
TGGCTCAGCCTCCTCTTCTTCACCAACGACCAGTACTACGTGTACTTCGGCACCGTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTCGGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTCAGCACTGTGGTCCTCCAG
GCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTCACCAGTGGCTACCTCTACGTGACCATCATCTACAACATC
TCCGTCAGCCTGGCCCTCTACGCCCTCTTCCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCCTACAGCCCC
GTCCTCAAGTTCTTCATGGTCAAGTCCGTCATCTTTCTTTCCTTCTGGCAAGGCATGCTCCTGGCCATCCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTCGGTGGGCGAGGGCACCGTGGCTGCCGGCTACCAG
GACTTCATCATCTGTGTGGAGATGTTCTTTGCAGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGGCTGGACGCACAAGGCCGCTGTGCCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGACCATGAAC
CCGCACGACATCGTGCAGGACGCCATCCACAACTTCTCACCTGCCTACCAGCAGTACACGCAGCAGTCCACCCTG
GAGCCTGGGCCCACCTGGCGTGGTGGCGCCCACGGCCTCTCCCGCTCCCACAGCCTCAGTGGCGCCCGCGACAAC
GAGAAGACTCTCCTGCTCAGCTCTGATGATGAATTC**TAG**GTGCGGGCTGCAGTGGCGGAAGTGCTGGCGCCATAG
CCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACCACCAGGCCAGGAGGCAGCTGGCACAGTGCTCACGCCGCCT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCATGGGCCTT
CAGGAATATTTATACATGGCCCAGCCTGCACTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCCC
CTGCTGCCCGTCCTGTGCTGGGGGGCATGCTGGGACCAGCCGCACCCAGGCCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCCTCCTCCCCGCGAGACTCTCAGGCTGAGGTCGGCAAGCCGTGGCTCCCCCACACACC
GTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCCTGCATCCCTCCCCTGTCCACCTTTGTCCAGTGCTAGATTC
ACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCCTCCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTCACAGGCCCCACCCAGGAAGGGCATTCAGGGCCCCTGGGCACCGCT
TCTGTTGAAGCAGGGGCTTCTGGGCCCCTGGGTATCCCCACCTGTCGTGGCCACACCTCTGCCTGCCTCATGCCC
CTTCCCCCTGGCCTACCAAGGACAGCCCACAGCCCGCACTGCCGGCTCACTTGGGTCCTTCCTCGATAGCTTTGG
GCAGAGCCCTTGCTTCCTGGCTGCTTCAGGGCTCAGGGGCTCCCAGCCCTCCTTCCCAGGCTGATGCTGGGTCCT
CTCTCTCTTTGGGGCTTCTCCCTCCCGTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGGAGCTGGGAGGTGGGGGGAATGGTCCCAG
ACTCCTCTCGGGGCCCCTATCCACACAGGGCCTGGTGTTCTACCCCATCTGGCCCCTGGCCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCCTCCCTGGCTCCCCATCTGTCCCACACGCTCCCTGGGGCTCTTAGTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGCTGGGCCCAGAGCCCTTGGACAGGCCTCAGGAGTGGTCAGGACCACCAA
GCCCCTCCTCTCCCCCTCCACACCTCTAGACCTGGGGCCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTCACAACACGTGTCCCTACAGGCAAAGTGTCCTGGCATTTAAAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTCACCTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCCTGCCGGTGTTCACTGGG
GATTCTTTCTTTTGGTCCTTCCTGGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCCAGCC
GTCTTCCTGGCCTCCTTCCTTTCCTCGTGGCAGAGGCCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGCGGAGCAGTTGGGCCCAAGCTGCCCGGGAGGGTGGGTGCAGAGGCTGAGGACCAGCCCTGG
CCCTGCCCCGCCATCTGCTTTCACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTGCTG
CTGATTCCCACTCCCTTGGTTTTCGCCTGCCCAGCGTTGCTGTTTGCGTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTCGTGGGGACGGGAACATGTGCCCGACCGCTCCATCCCTCCTCCTCCTTAGGAT
GCATAACCTACCTTGTCTTTTTTTTTTTAAATTTTCTTTCCAGGTAGAGTAGCTCTTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGTATGAGAAGACAGAGTCTCCTAGTTTTGTATCTTGTTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAA

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FIGURE 6055

MEQPVFLMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESSIMSEIRGKPIESSCMYGTCCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIHSARVSVGEGTVAAGYQDFIICVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNPHDIVQDAIHNFSPAYQQYTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLLSSDDEF

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FIGURE 6056

CAAGGTAACTCTGGGCTACAGAGTCCTTGCTGGGGGTTCGGGGAGCGCTTGGACCCCGGCTTCTGGGACGCGTCA
GGAGAAGGGAGCACTGGCTTTGCTTTCATCAGGCCAAAG**ATG**CCTTTCTTTGGGAATACGTTCAGTCCGAAGAAG
ACACCTCCTCGGAAGTCGGCATCTCTCTCCAACCTGCATTCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGC
TTGGAATACGGATCCCCGACTATGAACCTGGCAGGGCAAAGCCTGAAGTTTGAAAATGGCCAGTGGATAGCAGAG
ACAGGGGTTAGTGGCGGTGTGGACCGGAGGGAGGTTCAGCGCCTTCGCAGGCGGAACCAGCAGTTGGAGGAAGAG
AACAATCTCTTGCGGCTGAAAGTGGACATCTTATTAGACATGCTTTCAGAGTCCACTGCTGAATCCCACTTAATG
GAGAAGGAACTGGATGAACTGAGGATCAGCCGGAAGAGAAAA**TGA**AGACCCCAGAGACATTTATTGGGGAGTAGG
ATGTGGCTGAGTGCTTTTTTTTTGGCCAGACTAGCGGATTCAGTCCTGGAAGAGAGTATCATATAATGAGACCCA
CAGGCACTGGCACCCTTGGGTTGGCAATAGAAGGTGACATGGAATGGAGAAAACCAAGATTCCAGATGGGGATAG
TAACTAGAAGGTGCTTCAGATGCACTGCCTGCGGGTGCCAGTCTGAAAACCAGACCGCACAGAGGCCTGGGGCTG
CTGATGAGCTTTTTGGTGCTCTCCACACACAAGCTCGCAAACACACATGTCCCAGAATAGCTCTGTTGGGTTGTG
TTGGGAGAAGCGGCTGGAGTTCATTCTCTCACCCCCTTATGTTGGTGTTTGGCGTGTGACAGCAGTTCTACAGAG
CTCTGTGTTGGGGTCATGGATGAGCGGCTCTCTTGGCTCTTAAAGGCAGGCCTCTCTCTTCTTGCCTTTAAAGAA
TCCTCCTTCCTCACACCTGGCCTCCTCTGGCTTCAGCTTCTCAGCAGCAAGCACCAGCCTTCCACAACAACACTA
TATTTTTATGCTACTTTCCTGTTTGCACTACTACTTTTTTATTAAACGATGTTAAATAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPTMNLAGQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQLEEENNLLRLKVDILLDMLSESTAESHLMEKELDELRISRKRK

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FIGURE 6058

GGCACGAGGCAGTC**ATG**GCTGCCGCCGTCGCTGCTGCCGGTGCAGGGGAACCCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCTGTCGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCTCACTTCCTGGAAAGATC**TAG**ATTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATTCAAGTGTTTGAACTGCTGATAATTTGGATTTTTTTT
TTTTTAACTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCTGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTCACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCCTGACCATTAACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCCTCTGCACATTTTGGCTGTTAGACCTGTGTGTGTGTTTAAAAAAAGAGAAGTCAGTGCTCACTT
TTTGTATTTAAATATTAAAAATGATTCCAACTGAAAAAAAAAAAAAAAAAA

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FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFPERVRSAAGATFDLSLFVAQ
KMYRFSRAALWIGTTSFMILVLPVVFETEKLQMEQQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

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FIGURE 6060

ACTTTAAAGAGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACCTG
GTACACATCTTGGAGCCCTTGCCCAGACTGTGCAGGGGAGGTGGCCGAGTTCCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACCGCCCGCCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTCGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACTTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTCGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCTCCCTGGGCCTCATGGTCTGTCTCCTCTAGCCTCCTGCTCATGCTGCACGGGCCTCCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCCTGC
CTCACCGCTTCCTCCTCGCTCTTCCAGACTCTTCCTGCAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCCTCCAGCCTGCGTGCCCCTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAAATCTTA
CTAAACTCATCCTAGGCTGGGCATGGTGACTCACGCCTGTAATCCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCCAGACCAGGCTGGGTCACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAA
AAAAAAAAAAAG

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FIGURE 6061

CTCTACCGGCGGGATTTGATGGCGTG<u>ATG</u>TCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCCTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCCTGGGATACAAGGCTGGCATGACTCACATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAAACCCCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCCACACCC
AGATGCGCCTGCTTCCTCTGCGCCAGAAGAAGGCCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCGCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGCAGGATGAGATGA
TCGACGTCATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGGTGCTCACCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCT<u>**TAA**</u>TGCCAGGAACAGATTTTGCAGTTGGTGGGGTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAA

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FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHRGKVKSFPKDDPSKPVHLTAFLGYKAGMTHIVREVDRPGSKVNKKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKSKKKAFTKYCKKWQDEDGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLLPLRQKKAHLMEIQVNGGTVAEKLDWARERLEQQVPVNQVFGQDEMIDVIGVTKG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFG
HGRFQTMEEKKAFMGPLKKDRIAKEEGA

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FIGURE 6063

CCCGCAGGGGGTTCCTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACTGCTTCCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCACGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCTTCGATGTGGTGGAGAGGAGCTTCCTGG
AGTCCATTGACGACGCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCCTCCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTTCGGGAGGGGCCATGGCCG
TTGTGGCGGTCCTTCTCAACAACAAGCTCTACGTCGCCAATGTCGGTACAAACCGTGCACTTTTATGCAAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGTCTTT
CGCAGCTGGGCTTGGATGCTGGAAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACCCGGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCACAGCCGCTGGATGGGGTGACGGGCTTCTTGGTGCTGATGTCGGAGGGGTTGTACA
AGGCCCTAGAGGCAGCCCATGGGCCTGGGCAGGCCAACCAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCCAGGCCGTCGTGGACCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCCGGCACGAGGACATGACCCTGCTAGTGAGGAACTTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCCACACCGAGCCCAGCCCCAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCAT
ACTCCAGCGCCCAGAGCACCAGCAAGACCAGCGTGACCCTCTCCCTTGTCATGCCCTCCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCCACCCTCACCAACCAAAGCCCGACCTTAACCCTGC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGGCCCGCCCACT
CGCTCCCGCCTGGCGAGGACGGTCGTGTTGAGCCCTATGTGGACTTTGCTGAGTTTTACCGCCTCTGGAGCGTGG
ACCATGGCGAGCAGAGCGTGGTGACAGCACCGTAGGGCAGCCGGAGAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCCTAACATCTGCCTGTGCCACAACGGCCAGCAGGTGCCCCATCCTCTGCCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCAGTAGAGTGTGTGAGTGCAGACTGGACCTGTGGTTCATACCTTGTC
ACCACCCGGGAAGCTGAAGGCCACTTCCTCCCAGATGGCCTCAGCCAGGACCATCGCCCTTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCCGAGCCTCCCCAGCAGCCTCCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCCTGAGTGTTGCAGGCCCAGCAGACCCTGCTGTCCCAAGCCCACCCCTCCTCCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAACCC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTCATCTGTTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAACTGCCAGAGGATGGCGGCCTGGGCTTCCCCAGAGCCAGGCGTGCGGGAGAGGTGA
GGACTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTCGTCAGGCCTGAGCCAGGGTGAGCTGGTGCCTGCCTTGC
ATTTTCCTTCTGGTGCTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAACTGTCTTTACCACTGATGAGGGG
CCTCTGCCGGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAGGCTGGGGGACTTGTTTGAAAGAAAGAGGAGTGGA
AAATGGTTCCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCCACATGTTCTCTGCCTTCAGTGGGGAGGGGGTGCCACCAGGGCTGTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGCACCTTGGCCAAGCCACACAATCAGTG
GGGCAGCCAGAGCTCAGACCTGAGCCATTTTGTCAGTATCCAGGACCCCCGGATTCTCCACGCCCTCCCCATCT
CCCAGTCTCCCTGCCCCCCATGCCCCAGACCGGCCCACCAGGGACTAGCCGCTGTCGCACAGCCTCTGGGGTGCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCCTGCGGCAGAGCAGGGCCTGG
TGTGGAACCAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAAACAGGTCTCAGCCCAGGGTCCTCGCTCA
CTCCCTCACTCCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAAGGAATTC

6568/6881
FIGURE 6064

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TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGGCTGGTGCTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCCTACCAGCCCCACCCGCCTG
AGCCATTCGGGGAAAAGGAGCTGGGAAGAACCCAACTGGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCCTGAGCCGGTCCTTGCAGACCCTTCCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCGCCC
CGGCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAACTCATTGTGCCCCTTGTGCTGGAGCAGAAC
CTGTGGTCATGTATTCCTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCCTGGTGCGTCGTGAGAATCCA
GAGTACTTTCCTCGTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCCTG
CCATCAGTGACCCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCCAGTATGACAACCTGTGGCGG
CTGAGCCTGCGTCCCGCGGAGACGGCACGCCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGGATATGCTGGCCGACCGTTTCCTGCAGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCCTGCCCAGTGCCCTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGCTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTCTTCCCCCTGTCCTGTTTCTCACCCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCCTACATTCCTCCTTGTTTGCCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTTAATCTACCATGTCC
GTGTGTC
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6569/6881
FIGURE 6065

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GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCCTCGGCCTTCACAATAAAAACTCTTCGCCG
GAAAACGACCTTTCCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGACTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTCGTGAGGCCATAA
GAACAAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCGCCCACAGATGTAGTTTTCTCTGCGCGTG
TGCGTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCAGCAGTGCCTGCGGCAGC
ATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAACCGACAAAGACACCTTCGAATTAAGCACATTCCTCGATTCCAGCAAAGCACCGCAACATGACCGAA
ATGAGCTTCCTGAGCAGCGAGGTGTTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGGAAACCATGCCAGATGACCTTCTGACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCCAGAAAGTTTAACAAAACCCGACCAG
GTTGCCCCCTTCACCTTCTTACAACCTCTTCCCCTTTCCCCAGGGGTCCTGTCCTCCACTCCAGATCATTCCTTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCATAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCCTCTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAAACTG
GATAAGAAGCTGAAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAAGAGCTGGAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG
AAAGT
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6570/6881
FIGURE 6066

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GTCGGTCGCAGCCCGCTCGGGCCCGTTCGCGCCCGTCCTGTCGGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCAATGTCCCTGCTTCTGTTTG
TTATTCCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTCGCATA
TGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAGGCAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTGGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTCAGGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTG
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6571/6881
FIGURE 6067

MSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

6572/6881
FIGURE 6068

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CCATGGCGGCTGGAGGCGATCATGGTTCGCCCGACAGCTACCGCTCACCTCTTGCCTCCCGCTATGCCAGCCCGG
AGATGTGCTTCGTGTTTAGCGACAGGTATAAATTCCGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTGCCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTCACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACTTGACCTGCTTTTGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTCACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTCAGGATCTTTGCATGGATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCCTGCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTCATCATCACAGGGCAGACATATACACGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCTCCTGGCAAACC
TCAAGGAGATGGAGGAACCCTTTGAAAAACAGCAGATTGGCTCAAGTGCGATGCCATATAAGCGGAATCCCATGC
GTTCAGAACGTTGCTGCAGTCTTGCCCGCCACCTGATGACCCTTGTCATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTCGTGTACCCCAAAGTAATTGAACGGCGCATTCGGC
AAGAGCTGCCTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCACTCCCAGTTGGATCATTTACTGGATCCTTCTTCTTTCA
CTGGTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTTAAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCTGTAGAGTTGGAAGAGAATTAAACGAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTCCTGTTTCTCAGTCTCACATTTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGCATAGTAAATGTAGTTCATACTTGAAAAAAAAAA
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6573/6881
FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFSDRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNTDLIILRNALDLLLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRDDLRFRGVKGTTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEEPFEKQQIGSSAMPYKRNPMR
SERCCSLARHLMTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNISEGLVVYPKVIERRIRQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPIHSQLDHLLDPSSFT
GRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

6574/6881
FIGURE 6070

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GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCTGGAACCGGGCCGTAGCCCCCCCAGTTTCGCCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTCAGCTCAGCCTTACAAGTGGCGGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGCAGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAATGTCCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTCGCAATAATACAAACCAGTGTACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCATTCAGATAATGTTTCCTACTAGGAATTACAAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAAACAAATTTAAAGGGCCTGTTAATTCTTATATTTTTCTTTACTAATCATTTTGGATTTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTTGAGGATAAAGTTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCAATAAAACTAATTGGGACCACCCGTATTTCAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTTGTAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAAATTCTCTTCCTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTTCCACCGGCATCATCACTGCTATCATCATTAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCATCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGTCTTTGTATTCAGCTCTTAAATAGTGTAACTATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCCT
CCAATGATAAAGAAAATGATAAATTTTCTGTTGTGCATTCAATTCTTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACCAGTGTTTCAATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATTCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAGGTTCTAACCCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAACTTGCATTTGAGCTTGTGTGTTCTTTTGTTAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCCTTATTTGATTTATTTAACCTAATTATATTCTAATATTG
CAAATATTACCATAAGTGGGTAAAAGTAAAATTCCTCTTCTGAAAAAAAAAAAAAAAAAAAAAA
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6575/6881
FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPDSKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRLAIL
YAKRASVFVKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGGMPGNFPGGMPGM
GGGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQNPANMSKYQSNPKVMNLISKLSAKFGGQA

6576/6881
FIGURE 6072

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CCCAAAATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTCGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAACTGTGTTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG
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6577/6881
FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCIECQANQASATSEECTVAWGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

6578/6881

FIGURE 6074

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GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTCGCAAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTC
TTAGAGAGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTCAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA
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6579/6881
FIGURE 6075

<u>ATG</u>GCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTCACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTCGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCAGGCTTTCGCTGTCAACCCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCCTCCCCACCTCCTGCAGACGTCTCCACCTTCCTGGCTTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCTTCAACTCCAACACCTTCCTCACCAGGCTCCTCGTGCACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGCACCCCTGCTGCTGGCGTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGTC<u>**TAG**</u>

6580/6881
FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVFVAGRNRLENDGATALAEAFRVIGTLEEVHMPQNGINHPGI
TALAQAFAVNPLLRVINLNDNTFTEKGAVAMAETLKTLRQVEVINFGDCLVRSKGAVAIADAIRGGLPKLKELNL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLEGFNMAKVLASLSDDEDEEEEEEGEEEEEE
AEEEEEEDEEEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILDPNTGEPAPVLSSPPPADVSTFLAFPSPEKLLRLG
PKSSVLIAQQTDTSDPEKVVSAFLKVSSVFKDEATVRMAVQDAVDALMQKAFNSSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGPLMALNHMVQQDYFPKALAPLLLAFVTKPNSALESCSFARHSLLQTLYKV

6581/6881
FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACG**ATG**TCCGACGCGGGCGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTCGGGGTCCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCCGCAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCACAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGAGACTCCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAACTTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTT**GTAA**CCCGTGCCCCCGCCCGGGCGGGGTAC
TGCCTGCACCTCAGACCTCTGCCTG

6582/6881
FIGURE 6078

MSDAGGGKKPPVDPQAGPGPGPGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEEDEAAAASTMAVS
ASLMPPIWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSTESSLEKERETPSPIDPNCVEVDVNFNPDPADLVLSSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKKNNVAAKRSRDARRLKENQITIRAAFLEKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

6583/6881
FIGURE 6079

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CATCTTTGTCAGTGCACAAAATGGCGCCCTACAGCCTACTGGTGACTCGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAACATTGTTCGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCCAGATGGCCATGCTCCAGTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTCACCAGATTATTCTGGAAAACTATGCGTACCCTGGTGTTCTTCTGATTGGCACTGACTCCC
ACACCCCCAATGGTGGCGGCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCCTCAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGTGCAATCGTGGAATACCACG
GGCCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGGAAGACATTGCCAATCTAG
CTGATGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTCACCCCTGACCTGGCTCACCCTGTGGCAGAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCCAGTTCACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGAACACAATCG
TCACCTCCTACAACAGGAACTTCACGGGCCGCAACGACGCAAACCCCGAGACCCATGCCTTTGTCACGTCCCCAG
AGATTGTCACAGCCCTGGCCATTGCGGGAACCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCCTGGCTCAAGTTCCGTGGGCACTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATCACCAAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATTC
ACCCTGTGGACAAGCTGACCATTCAGGGCCTGAAGGACTTCACCCCTGGCAAGCCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAACTGCAACAGTGAGGGCAGTGCCTCCCCGCCGCGCTGGCGTCAAGTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAACCC
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6584/6881
FIGURE 6080

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAEIGATTSVFPYN
HRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAGTLKFNPETDYLTGTDGKKFRLE
APDADELPKGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTQEFGPVPDTARYYKKHGIRWVVIGDENYGEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIIKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

6585/6881
FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTCGGTCTCGCGCG
CCCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCGCCTGCGTTTGAGGCCCGCCTGCGCTTGCG
GCCCGCCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTGG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCGTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGCCGCCGCCGGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCCATGCGCATTTACATGCAGTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGTCTTTCGCCTAGTGAGCAGTAGCCAAC<u>ATG</u>TCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTGTTCTATGGTACCGAGAAAGACAAAAATTCAGTGAATTTTAAAAATATTTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTTAAGGGGCAGCAGGGACAAAAACGTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTCACCAATGAAGACAACCCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAAGCCGGTGATCTCCGAGATACAGGCATCTTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTCGCGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTCGTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCTTGGCCTTGGATTTGATGGAGCCGGAACAAGCAGTGGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTCAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCTGCCGGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGAC<u>TGA</u>CCAGAGGCCGCGCGTCCAGCTGCCCTTCCGCAGTGTGGCCAGGCTGCCTGGCCTTGTCCTCAGCC
AGTTAAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6586/6881
FIGURE 6082

MSGWESYYKTEGDEEAEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFYGTEKDKNSVNFKNIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSDVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDLMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESSKLEDLLRKVRAKETRKRALSRLKLKLNKDIVISVGIYNLVQKALKPPPIKLYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMPFTE
KIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRLGSLVDEF
KELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELL
EALTKHFQD

6587/6881
FIGURE 6083

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ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAACTATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTTGTTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAATTAAACAGCATTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTTGGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAACTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCCTGCCACCATGTGGGTCAGATGTACTCTCTGTCACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG
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FIGURE 6084

MTEADVNPKAYPLADAHLTKKLLDLVQQSCNYKQLRKGANEATKTLNRGISEFIVMAADAEPLEIILHLPLLCED
KNVPYVFVRSKQALGRACGVSRPVIACSVTIKEGSQLKQQIQSIQQSIERLLV

6589/6881
FIGURE 6085A

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CCGTCGGTGAGGCGGTGCCGGGCGGGGGGTTGTCGGGTGTCATGGGCGGTGGCGACGGCACCGCCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTTTTCAGAACAGCTGTGTAGCTCCTTCCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCCT
TCAGTGCAACGGTCATTCACCCAGGTCACATTACCTTCCTTCTCTCCCTCGGCGGCCTCCCCACAGGCTCCAACT
CTGCAAGTCAAGGTTTCTCCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCCAG
CCCCAGCCTCAACCTCAAACTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTCAGCACCACTCCGCAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCCTCCCAGGTACAGCCGGTCACCATTCAGCAGCAGGTGCAGACAGTACAGGCCCAGCGGGTG
CTGACACAAACGGCCAATGGCACGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGCCCTCACCGCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCTGGTGGGCAGCAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGCAGCAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCCTGTGCCTCTCCTTTAACCCCCTGACTTCCCTGCTGCAGTGGGGAGGGGCCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGCAGTGTCCTGTCATTCGAGTCAGGTTCTGGGGGCTGGTTTGACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCCTGAGCGTCTTTGTGAAGCTGCTGGTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTCACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGCAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTTGGGCCGGGCACTGCCCACCTCC
CGCCTGGACCTGGCCTGCAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCGCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCACGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGCTGCACCAGCTGCACATCACAGGGAAGCTTCCTGCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCCTGGCC
AGCTACTTCCTCAGCCGAGCCCAGAGCCTGTGTGGCCCCGAGCACAGTGCTGTTCCTGACTCCCTGCGCTGGCTC
TGCCACCCCCTGGGCCAGAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCATTGCGCAGGTCCACCAGGCCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCCTTGGTGAAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCATTCTTTTGTGGACTCTGTGGGGGTTATGAGCCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTCGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCAGTGGGGGC
ACCTCTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGCTACTGTCGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAACTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCCAGCATACCGCAAGGTGTTCCTGCATGAA
GCCACCGTGCGCCTGATGGCAGGAGGCAGCCCCACCCGCACCCACCAGCTGCTGGAACACAGCCTGCGGCGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCCTGCTG
GCCTGCCGCCACCTGCCCCTCTCCTTCCTCTCCTCCCCGGGCCAGCGGGCAGTGCTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCCTCCTGACCACCAGGCTCAGCCCACCCCTCCACCTCTCTCTCGATTTCTCTCTCTCCCCCTCAG
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FIGURE 6085B

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CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCTACTCTCTCCTTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAAATAAATGGTATCTTA
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FIGURE 6086

MDDSGELGGLETMETLTELGDELTLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGGSGSSSGSSGSSSSSSSN
GRGSSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPTSVPTTPRATPILQPRPQPQPQPQTQLQQQTV
MITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPVTIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQQVPVLVQPQIIKTDSLVLTTLKTDGSPVMAAVQNPALTALTTPIQTAALQVPTLVGSSGTILT
TMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNIIEKRYRSSINDKIIELKDLVMGTDAKMHKSGVLRKAID
YIKYLQQVNHKLRQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLLDDAKVKDEPDSPPVALGMVDRSRILLCVLTFLCLSFNPLTSLLQWGGAHDSDQHPHSGSGRSVLSFE
SGSGGWFDWMMPTLLLWLVNGVIVLSVFVKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAANLQTC
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRRATPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAGSACSDVHMALCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPQAKKKAG
DQEEESCEFSSALEYLKLLHSFVDSVGVMSPPLSRSSVLKSALGPDIICRWWTSAITVAISWLQGDDAAVRSHFT
KVERIPKALEVTESPLVKAIFHACRAMHASLPGKADGQQSSFCHCERASGHLWSSLNVSGGTSDPALNHVVQLLT
CDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVDAWPGQRERATAILLACRHLPLSFLSSPGQRAVLLAEAARTLEKVGDRRSCNDC
QQMIVKLGGGTAIAAS

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FIGURE 6087A

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GATTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGCAGCCCCGCCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGGCCGAAGGCGGCCCGTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCCAGTGCTTTTCAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAACTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCCTTTCCTGGCTGACT
ACGTTCACTCCCTGGGCCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCCGAGGAGCGGGCCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCCA
TCGCCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCCTCCCCCCAAGGGTGAACTACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAACTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTCG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTCACAAGGAAAAATCTCTCATCGAAGTGTACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTTGGCCAGC
TGAACTTCACCGGGTCTGTGATATATGAGGCCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTCAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAACCTGGAGA
TGTCCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCACTGAGCCTAGACCATGGAGCCTTGGC
ATGCCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCCTCTTGGAAACTTCTTTTGGGGCAATTTTCCTGTG
GCCTTCCTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCAG
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTCACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGGTGCTGGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGTCTGGCCCCTCCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCCTCACACCCAGGAGCTGCCCCTGCTGTGCCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCCAGGTCCTGCAGCTTGTGCTCTGCCCAGCAGTGCCCCTGGCCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCCTTTATTTCTCTCCCAACCTGG
CTGCAAAGGAGGTTCATATTCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAAATTGATTTCCTG
TCCCTCTTCCTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGTCTTCCCTGGTGGCTCTCCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTTCTGAGGTCCTTGTATTTAGGGT
ATGGTGTAAAAACTTACATATGCACATTTGTTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTCCTTTCCCCAGTTGATGTCTTGAGGCTGTTGAGAAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCCTCCGTGCATAGCTCTGCCTTTGGGTCTTGTTCATAGTGCTGTTCAGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGCTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTCAGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTTCCTTTTGTCCTGGGGGTGCCTGATTGATCCTATCTCTTCACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTTTGGACGCAAGGTACCCTTTCTCTTTTTAAAAACTTTTTATCATGAAAACTTT
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6593/6881
FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

6594/6881
FIGURE 6088

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GAGAGTGTCCTGCCTGGTCCTCTGTGCCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGCCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGCGCCGCTTCGGGGACGTGTTCAGCCTGC
AGCTGGCCTGGACGCCGGTGGTCGTGCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCCTGCGCCCATCTACCAGGTCCTGGGCTTCGGGCCGCGTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCCCGCGTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCCGCCTGCCTTTGTGCCGCCTTCGCCGACCAAGCCGGACGCCCCT
TTCGCCCCAACGGCCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCCGCTTCGAGT
ACGACGACCCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTCGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCCGTCCTCCCGCACATCCCAGCGCTGGCTGGCAAGGTCCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCCAGCCACCCCGAGACCTGA
CTGAGGCCTTCCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACCTGTTCCTTGCCGGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTCACGAGGTGCAGCGCTTTGGGGACATCATCCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCCGCATCCCTAAGGGAACGACACTCATCA
CCAACCTGTCATCGGTGCTGAAGGATGAGGCCGTCTGGAAGAAGCCCTTCCGCTTCCACCCCGAACACTTCCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCTTCCTGCCTTTCTCAGCAGGCCGCCGTGCATGCCTCGGGGAGC
CCCTGGCCCGCATGGAGCTCTTCCTCTTCTTCACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCCGGAC
AGCCCCGGCCCAGCCACTCTCGTGTCGTCAGCTTTCTGGTGACCCCATCCCCGCTACGAGCTTTGTGCTGTGCCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACTTGGGTCCCCTGCTCACGCCCTCGTTGGGATCATCCTCCTCAGGGCAACCCCACCCCTGCCTCATTCCT
GCTTACCCCACCGCCTGGCCGCATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTCAGTTACCCTTGCCCATAA
TCCCATGTCCCCCACTGACCCAACTCTGACTGCCCAGATTGGTGACAAGGACTACATTGTCCTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTCAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTCAGGCCTAACTCAGCCCACCCCACATCAGGGACAGCAGTCCTGCCAGCACCATCACAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTCAGGGAGCTATATGCCAGGGCTACCTCCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCGAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCCAAAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCCTCACGGTGA
GTGTTACAGTTCTT
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6595/6881
FIGURE 6089

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ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGACTGGCCGGGGTCAACTCTGACATTCGCTCCCACTTTC
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGGCCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCCTCAATGTGCCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAAGGAGTCAAGGTCGAAGTTTTTTCATCCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTCAGCGGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCCT
GTGAAGAGTGGCATTCACAAGTGGATCAGTGACTACGCAGACTCTGTGCCCGACCCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGGTC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCCGGCGGCCTGTGCTCCCCCGGACTGAGGCAGCCAGC
TTGCGGGTGCTGGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGCAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCCGAGAGGAGGACTTGTCCTTCCTGCTTCTTGCCTCCACACCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCCTTTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAAGGCTAGGTGGGCCCAGCCCGCCCTT
CCTTCCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTTGTGGGGCTCAGGAACTCAGAGTCCCAGTGTTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAAACTGGAACCGCTCTTT
GAGGGTGGATTTCATTGTGTCTATCATGAACGACAGGGACTCCTTGTCAGAGTAATTCTCTCTTGGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCC
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FIGURE 6090A

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CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTTGTTCTAATGGGTAAACTGCCTGCATCACAGCTCCCC
TTCATCCCCCCATTCCGTTTCCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCCCCAGTGAGGTTTTTT
GTTTGTTTGTTTGTTTGTTTTTTGCTTTTTCAGTTATTTTGAGAGTCTCACTGTGTTGCCCAGGTTGGTTT
CAAACTCCTGGGGTCAAGCAACCCTCTCCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTTGGCTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTTGCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCCTGGGTAATGAATTATGTGATTTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACCTAATAAGTTTGGGAACTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTCGGGCTTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCCTAAACTTAAAACCACAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATCATGCCACTGCACTTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAAACCCCACAAAACCCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTC
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCCTGTAGTCCTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGCTGCGAGGTGGAATGAGATGAAGGGGTATGGAAAGTGTTACACCC
AGTGCCTAGCTCATGACAGATGCCCAGTAAATGGTGGGTCCCCTCCCCATCTAAGGAAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACTCTGCCTCCTCCTCCAACCCCCCTGCCGAAGTGGACCCTGACACCATCCTGAAGGCACTCTTCAAGTCC
TCAGGGGCCTCTGTGACCACGCAGCCCACAGAATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTCCCCAAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTCCTGTAGTATGTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTT
TCAGTGTGTGCCTCCCCGAGCCTCAGCCCCAAGCTGATTTCTTATCTGGAAATGGTACACTGAATTCTCTGGGTG
GCTTTCTTGTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCCTGCTTTTTCCAGGGGCCGAGGGGCT
GCCTTTCCTTTGTGTGTATTAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCCTGACGGGAGCCAG
GTCGGCCTGAGAGCTGTGCCGCTCCTCTGTCTTGTCAGTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCT
TGTCCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGGAGTCCCGTGTCGTCTCCACCCAGAGGAAGTTCTCCAGAGTTCACCTTTCCCTTTTCCT
TGAGTTGTGCTGAATGCCCCACCCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGGTTCTCACCTCGCCTGGCACTTAACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCCTTTGAAAGGCTCAGCCTCCCATTGTGCAGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTTG
TTCCTGGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCCACTTATGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAGGCCAGTGTTGTCACTGAGTGGTCCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCA
GTGAAAAAAACCAGAGACTCATGTTTCCAGGGGTCAGTCTGTCAGGCAGGAAGGACCCAGGATTTGAACCCAGCT
TCAGTGTGCAGGCTCTGAGGCTGCCCAGGACGGGAAAGTCCAAGGAAGGGGCCTGGTGGTGCTCCACTTGCAGTT
CTTTAAAGAATGCTGCTTTTTATTCTCCTAACCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCCTCCCACACTTTTCCCTTCCTGGCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTCAGGTACTGG
GAGCCGGGGGCTCACTGCTTGCACTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGGTTGTCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG
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6597/6881
FIGURE 6090B

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GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCCTCCTCCACTTCCCATGCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTGAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTCACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCCAGCCAAGGGTTTTAATCTTGCAGGGATTTCAACATTTGGGGTGGAACT
TAATTATTTAAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACTCCTGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTTGGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCCTGTGCCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTCCTGTGCCTGGAACATTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCCTGTCTC
TACTAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTCAGGAGGCTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGCAGTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAAAATAGTTGACTGTCGGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCACTTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTTGTGCCCAGGAG
GCAGAGGTCGCAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCCTCTCCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGACTGGCCGGGGTCGACTCTGACATTCACTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGCAGGCGCCACAAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGACCCCCGCG
CTCCCGGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGGCGCGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGCT
GGCGGCGGCCGGGGGTCCCCAGGAGCGGCCGC
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6598/6881
FIGURE 6091

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CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTCGTCGCTCCCTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACTCATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCGGCAGAAGATTGGCCTCTCAGATGCCC
GGCTCAAACTGGGAGTCAAGGATGCCCGGGAGAAGCTTTTGCAGAAAGATGCCCGATTTCGAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAACTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCGGGAGAAGATCAGCTTGAAGAGGAGTTCCCCTGCTGCCTTCATAAACCCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTCACCAAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCACTTCATCCCCATCCTGCCG
GAATGAGAATCAATGTTGTCAATAACCACCAGGCCAAACAGAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTCCTACTAAACAGATGAAGTTTGCAGCCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCCATGTCCAAGGCCCTCCCTCTCACCAAAGTGGTTCAGAATGATGCATACACAGCTCCTGCTC
TCCCTTCCTCTATTCGAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTTTGTGAAAAAGGACGATGCCATCACCGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAACTCTGCCTCCTCCTCCAACCCCCCTG
CCGAAGTGGACCCTGACACCATCCTGAAGGCACTCTTCAAGTCCTCAGGGGCCTCTGTGACCACGCAGCCCACAG
AATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCAGAGGAGGGTGGCTCTGTTTCCCC
AAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTTGCCAGGGATAAAGAG
CTTCCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCCCTGTGCTCTTCTCTACGTTAACGTTTCCT
GTAGTATGTTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTTTCAGTGTGTGCCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCTTATCTGGAAATGGTACACTGAATTCTCTGGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCTGCTTTTTCCAGGGGCCGAGGGGCTGCCTTTCCTTTGTGTGTATTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCCTGACGGGAGCCAGGTCGGCCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCAGTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCTTGTCCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTCGTC
TCCACCCAGAGGAAGTTCTCCAGAGTTCACCTTTCCCTTTTCCTTGAGTTGTGCTGAATGCCCCACCCCAGCTCT
CTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGAGCCCTCCCGGTTCTCACCTCGCCTGGCACTT
AACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCCTCCCATTGTGC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTGTTCCTGGCTCTCCATTTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCACTGTTTGTTCCCACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCCTGCCTTGGCAGAGGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGACAGTTGGGACGAAACTTCAGAGCCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTTGTCACTGAGTGGTCCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGCTGGAAAAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCAGTGAAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTCAGGCAGGAAGGACCCAGGATTTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCCAGGAC
GGGAAAGTCCAAGGAAGGGGCCTGGTGGTGCTCCACTTGCAGTTCTTTAAAGAATGCTGCTTTTTATTCTCCTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCCTCCCACACTTTTCCCTTCCTGGCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCACTGTGCTT
AGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCCCTCTCATCCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGCTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCCTGTGTCCTCCTCCACTTCCCATGCCTCTATGTTACCCATCTGTGTCTCCTGTGCAGAAGGAGAGGAAGGGG
CATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTGAATAAACATTTGTTATTCCT
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6599/6881
FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGKVQDAREMLNSRKQQTTVPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTKTIQ
VPQQKAMAPLHPHPAGMRINVVNNHQAKQNLYDLDEDDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELF
CVCGALKRARLVHPGVAEVVFVKKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPILLRLSDSPSMKKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTEFKIKL

6600/6881
FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCTCGAGAGCCCGGGTTCAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAG
CCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACT
GGTCCTTACCAGAGACGCCCAGCCCCATCCCTGTCCTCATGACCCCTCGTCCACCCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCAAAGCTGCAGGTGCCAGGGCCCACCCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCCACAACCACATGTATTTATTCCTCTGTCCTAAACCGTCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAAG
TAAAACTTTGCTAATATT

6601/6881
FIGURE 6094

CGCGACGGTCTCGGCGGCGGCGGCGGCGGCGACAGAGCGAGCGCGGCGCGGGGCCACCATGGGGGCCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCCTCGAGAGCCCGGACATCAAGTACCCGCTGCGGCTCATCGACCGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTCACCCCAGCACATCCTGGGCCTCCCTGTCGGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTCGTCCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCGCCATCCGACCTGACAAAAAGTCCAACCCTATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCCGCTGGTGCTGATGTGTGGCCCCCCCACCCATGATCCA
GTACGCCTGCCTTCCCAACCTGGACCACGTGGGCCACCCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCCACGCCCTGTTCACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTCAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAGCCCCTTC
GGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCCTCATGACCCCTCGTCCACCCCCCACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCCACCCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGGCCCAGGC
CTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCCAGAACCT
CAGCATTTCCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCCTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCCACAACCACATGTAT
TTATTCCTCTGTCCTAAACCGTCCCCTCCTTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAAAAGTAAAACTTTGCTAATATT

6602/6881
FIGURE 6095

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AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTGGAAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGCCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGGCGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCCCGCCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGCCCACCAGGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTCATGACCACTGGGCCTGCTAGTCTGTCAGGGCCTTGGCCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCCACCCGGGAGCAGTGTCCTGTGCTTTCTGCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGACTTCCTTT
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6603/6881
FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPAGRPPALPLPGLAGLRDHTQLLRMAGQPWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCCTGCGGAGCGTAGCAGCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCTTGGCCGAGTTCGCGGCGCTGCACGGCCCGGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTCGACGCTGGGGAAGTGTTTGGGATCATGCAAGTGGAGGAGGTA
GAAGAGGAGGAGGACGAGGCAGCCCGGGAGGTGCGGAAGCAGCAGCCCAACCCGGGGAACGAGCTGTGCTACAAG
GTCATCGTGACCAGGGAGAGCGGGCTCCAGGCAGCCCACCCCAACAGCATCTTCCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGCGCCAGCAGCTGCAGCAGGTGCCCGGGCTGCTGCACCGCATGGCCAACCTGATGGGC
ATTGAGTTCCACGGTGAGCTGCCCAGTACAGAGGCTGTGGCCCTGGTGCTGGAGGAGATGTGGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCCAGCTTCGCCACGGCACCCTTCTTCTACATGCCGCAGCAGGTGGCCTACACGCTG
CTGTGGCCCCTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTTGCCTACGGAGAGACGGACCCCCTG
ATCCGGAAGTGCATGCTGCTGCCCTGGGCCCCCACCGACATGCTGGACCTCAGCTCTTGCACACCCGAGCCGCCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGCACCCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTCACCCTC
ACCCAGAGTGAGGCGGACGCCGACATCCTCTTCAACTTCTCACACTTCAAGGACTACAGGAAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACCAGTTCCCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGCAGGTGGCCCCGAGGGCCCACCCTGGCTGCCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGCTACTTCCAGCAGCGGGAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTCACCAAGAGCCTGCACAGCATCATCCGGCACCGAGAGAGCACCCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTTGTTCCTTCGAGAAGACGTGGGAAAGGTCAAGTTCGACATCCGCTACATCGTG
CTGCTGCGGTCAGTGAGGCCCCCTACGGTTGTTCGTGTATGATGTGTTCTGGCTGCGGTTCTCCAACCGGGCCTTT
GCACTCAACGACCTGGATGACTACGAGAAGCACTTCACGGTCATGAACTATGACCCGGATGTGGTGCTGAAGCAG
GTGCACTGTGAAGAGTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCCTTCACGGAGCTGTTCCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCTCTGCGACTACCCC
TCATCCCGGGCCATGTATGCCGTCGACCTCATGCTGAAGTGGGACAACGGCCCAGATGGAAGGCGGGTGATGCAG
CCGCAGATCCTGGAGGTGAACTTCAACCCCGACTGTGAGCGAGCCTGCAGGTACCACCCCACCTTCTTCAACGAC
GTCTTCAGCACCTTGTTTCTGGACCAGCCCGGTGGCTGCCACGTTACCTGCCTTGTC**TAG**GCACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCCAACCTCAGTTCTCTGAGCTGCTTCTGCAAAGGCCCCCATGTCCCTCCCC
ACACCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCCTGCCGAGCCATCCTCCCGGCGCCACACTCCGGGA
GCACAGCATCCTCCTCTCACCTGTGGGTCAGAGCAGGACAGTGATGGTGTCCCCAGGGCTGAGCACCACCCCACG
CCCTGCCCTCACCCCTCACCACCATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTTGTTCCTGGCATG
GAGAATTTGTTCCTGGCTGCTGTGTTTCCAGGGGGTGCTGGGGGAAGGGTTCCGTGGAGCGAGACAAGGTGTCCT
CGGGAGCAGGGTTCCACCGGGAAGCGTTTGGGAGCCCTGTATCACACGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCACACTGCACCCACAGGGCTCTATGCGACA
GGGGCCCAGGAACAGCCTGAGGCCACCACCCAGCAAGCCCGCCTTATCACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCCTGGCAGGAGGCCACCGTCTTGTTACCGTTTCCTTTTCGTTTGCTGAGGGT
CACAGACCCCAACAGGGAAATCAGTATCTGTCTTCCCAGTGGTTGCCCTGCTCGCCGGGCACTCCACGGGGTCCC
GCCCTTGTGTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAGGTTAAAGTCAGATGCCACCTACCAGGGTCTACAGTCAAAATG
TTGGCTTTTTCTTATTTTTTAATGTATGGGAGAAAAATGTAAAATTCCAGTTCTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCCTGGGCCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCCAGGCAGGCGAGAGCTACTTCCAGAGCCTTCCAGTGCATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAACTATCTTTCTTGTAGCAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCTTGTTTACAAGCACGCGTTACCCTTCCTGAGGGGAGCCATGCTCTAGCCCCTGGAGGGCCTGTTGCA
GGGGCAGGGCGGGCCCGTCGCCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTCGTGCTGC
AATAAAGGCCATCTTCTCTTA

6605/6881
FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRLLHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAREVRKQQPNPGNELCYKVIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANLMG
IEFHGELPSTEAVALVLEEMWKFNQTYQLAHGTAEEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCMLLPWAPTDMLDLSSCTPEPPAEHYQAILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHFKDYRKLSQERPGVLLNQFPCENLLTVKDCLASIA
RRAGGPEGPPWLPRTFNLRTELPQFVSYFQQRERWGEDNHWICKPWNLARSLDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLFLREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRFSNRAFALNDLDDYEKHFTVMNYDPDVVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFTELFQVACAKPPPLGLCDYPSSRAMYAVDLMLKWDNGPDGRRVMQ
PQILEVNFNPDCERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

6606/6881
FIGURE 6099

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GCGGGGAATCATGGCCGCCCCCAGTGTTCCGCGTCCGGGGGTTTGTGGGAGTTGCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCGGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTCTTGAAAACAAAGATGTGGTTGTTC
AACATGTTCATTTTGATGGACTTGGAAGGACTAAAGATGATATCATCATTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACTTCCAAATGGGTTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGGCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTCAGTTTTCCTATGGAACAAAAGAAACTTCGTATG
GCCTGTCCTTCTTCAAACCACGGCCCGGAAACTTCGAAAGAAATTTCTCTGTAAACTTATATAAAGTTACTGGAC
AGTTCCCTTGGAGCTCACTGCGGGAGACGGACAGAGGAATGTCAGCTGAGTACAGTTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAACTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTCGAA
AAGAAAGCGGACATTCACTGAAATCATCTCTTTCGCACGCCATGGTCATCGATTCTCGGAATTCTTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAACTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAACTTCAGTTGAACAAGCAACTCATATTTGATTCAGTTTTTTCAGCGTCTTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGGTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGGCCTGC
ACCTCTACACCCCATTACCTTTCCGGCCAGGCCAGGGTGGCTTTGGAGAACTTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCATCC
GCTGGTCGTACGGGGCCGGGATTGTCCTCAGGCTTGGCAACATCGCTCGGTTGGAACTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTCCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC
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6607/6881
FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLGRTKDDIIICEIGDVFKAKN
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTFEVTELRRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETSYGLSFFKPRPGNFERNFSVNLYKVTGQFPWSSLRETDRGMSAEYSFPIWKTSHT
VKWEGVWRELGCLSRTASFAVRKESGHSLKSSLSHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDVSFIKEDF
ELQLNKQLIFDSVFSASFWGGMLVPIGDKPSSIADRFYLGGPTSIRGFSMHSIGPQSEGDYLGGEAYWAGGLHLY
TPLPFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGNIARLELNYCVPMGV
QTGDRICDGVQFGAGIRFL

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FIGURE 6101

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ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTCGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAGCTCACAGTGGTGCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCGACCTCTCCCTCCCAACCAACGTCCAGGTGGAGGTCATCACTATCGAGAGCACCAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGGAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAGTGAACGCAGTGAAAGAGGCCATCGTGAACTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTCAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA
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FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRSLQLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITIESTKSGLKSEKLVEQLTEYSTDKDEPPKDVFDELFKLAPEKVNAVKEAIVNFVNQKLD
RLGLSVQNLDTQFADGVILLLLIGQLEGFFLHLKEFYLTPNSPAEMLHNVTLALELLKDEGLLSCPVSPEDIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

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FIGURE 6103

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CTGAGCCTCTCCGTGCAATGATTAACCCGGCGGGGCGGCCGGCGCGGGACCCGAGACGGAGGCGCGGGGCCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCCTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCGGGG
CCCTTGGTGCGGCGTGGCGCAGGGCGCGGCGTGGGGCGCGCGTGGGCGCGGCGCAGGCGGCCCGGGTCACCATGA
GGACTCTCCGCAGGTTGAAGTTCATGAGTTCGCCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCGCCGCCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCCTTCTTCACGGAGTACCTGCAGAACCAGCTGCTGACAAAAGGCATGGTGATCCTTCGGGACA
AGATTCGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGGCGGCTGCTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCACGAGTCACCCGTTCTACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTCACGTTCAGCTGCTGCCGGATGCCACCCT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTCGATAGGAAAGACGGGGATCTCACTATGTGGCCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGCACCCCACCA
GCTTCATCAAGGTCCTGTGGAACATCTTGAAGCCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCATCCCTCCCGAAGTTTTGCGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCCTCCCACCAAGACACCACCGCCGCGGCCCCCGCTGCCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACTTTGACGACTACGGGGACATTCACATCCCTG
CCGTGATCCTGAAGACCTTCCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCCAGAGCACAACT
ACGTCGTCCTCCGGTACCTCATGGGCTTCCTGCATGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCCAGGGGGTCTCCTCCCTGAGTGCCCTTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCCTTTGCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTCACCAAGCCTACCCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTTGCGAACACTCTG
TATATTTCGAGCTACCTCCCACACCTGTCTGTGCACTTGTATGTTTTGTAAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAGAACCTTCTAATGAAAACTCCATGCCTCTGGTCCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT
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FIGURE 6104

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GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTCAGTGTCATGTGAGGACG
TGCTTCCTGCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAACCAGCACCATCTGGTCGCGATGGTGGACACGG
AAAGCCCACTCTGCCCCCTCTCCCCACTCGAGGCCGGCGATCTAGAGAGCCCGTTATCTGAAGAGTTCCTGCAAG
AAATGGGAAACATCCAAGAGATTTCGCAATCCATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCCTGGCTCAGATGGCTCGGTCATCACGGACACGCTTTCACCAGCTTCGAGCCCCTCCT
CGGTGACTTATCCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCCAGTGGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTCGGCGAACGA
TTCGACTCAAGCTGGTGTATGACAAGTGCGACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGT
ATTGTCGATTTCACAAGTGCCTTTCTGTCGGGATGTCACACAACGCGATTCGTTTTGGACGAATGCCAAGATCTG
AGAAAGCAAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAAACTGCAGATCTCAAAT
CTCTGGCCAAGAGAATCTACGAGGCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCGGGTCATCCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTCATACATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCATCTTTCACTGCTGCCAGTGCACGT
CAGTGGAGACCGTCACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACTTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGGAACCCAAGTTTGATTTTGCCATGAAGTTCAATGCACTGGAACTGGATGACAGTGATATCTCCCTTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCCTGGCCTTCTAAACGTAGGACACATTGAAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGGACGATATCTTTCTCTTCCCAAAACTTCTTCAAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACTGAGTTCCTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCACGATTTTGCACAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATTCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAACTCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG
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FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLQEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSVITDTLSPA
SSPSSVTYPVVPGSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVYDKCDRSCKIQKKNR
NKCQYCRFHKCLSVGMSHNAIRFGRMPRSEKAKLKAEILTCEHDIEDSETADLKSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNNPPFVIHDMETLCMAEKTLVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLSSVMNKDGMLVAYGNGFITREFLKSLRKPFCDIMEPKFDFAMKFNALELDDSDI
SLFVAAIICCGDRPGLLNVGHIEKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQIIKKT
ESDAALHPLLQEIYRDMY

FIGURE 6106A

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CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCGGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCGGGCAGCATCCAGC
ACGTGTATGGTGCCCAGCACCCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCAGTGAAGGCCAAGAGGGTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCTGGGACG
CTGGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACCACAGCCAGCGGCAGGGGCGGCCCACGCTGCAGGAGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCGAGGCAGAGCCGCCCTCACCCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTCAGTGAGAGCCACA
CGTCCTGTCCTGCAGAAAGTGCCAGCGATGCCGCCCCTCTGCAGAGGTCCCAGTCTCTCCCACACTCGGCCACCG
TCACGCTGGGTGGCACATCTGACCCCAGCACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGCCTCCCGGCTCG
ACAAGTTCAAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCGTCCAATGACGTGGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAAGAATATTTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTCACC
AGGACACATACAGGCAGATCCACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCCTGCAGCCCAAGGTGA
CGGAGATTTTTGAAAGGATCTTGTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGTCT
CCGGCGTGCCCGCAGAGGTGCTGTGCAACATCGAGGCCGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAACTACACCTTTGCCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGCACCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCCTGCGTTGTACCATCCGCCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTCCACTTGTACGTGTGCGCTGCTTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAGATT
TTCAAGAGCTGCTGCTCTTCCTCCAGAACCTGCCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGCTGG
CCGAGGCCTACCGCCTCAAGTTTGCTTTTGCCGACGCCCCCAATCACTACAAGAAATGAGCCCAGGCCCACCCGC
AGCTGGCCTCACTGTCCCGGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCCTGTGAGCTGGTCCCGGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACCAAAGAGAGCCAGGGGAGGGCCCCGGGTTCGGCGGCCA
GAGGCAGGTCAGGGGTCCCCTCTCCCTCTCCCTGCAATGTCCTTGCCAAATGACTGCCTCGTGCTGCCCCTAGTC
CGGGGCAGCCTAGGAGGCCGACCCTCTTTGGAGTCCTGCTGTCTGGGTGCCAGGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCCGCGAGGTCCCCTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCCGTGTGTTTTCCTGCTTGCTTGGTTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCCTGGGAGGCCGTGGGACCAAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCCACCTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGGCCTCAGCCAGAGCCCCTGGAGGCCCACCCAGGCTGTCGGGCCATGTTGGGCTGGCAGACGGGCAGGGGGT
CGCGTCCCTGTCATCAAAGCCCTGAACCACAGTGCTCTTCTCACCGCAGCCTGGAAGCGGAATGAGCTTTTGGAG
ACTTCCTGGGACTTGCTGTCCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCCTCCATGGACCGGTTCCTCCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCCGTGGACCAGTTCCCGCTGTATACTGGTTCT
GCCCTGGACTGGTTCCCGCTGTGGACTGGTTCCTTGGGGCTCTAAGTGCGGAAGGGCCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGTCCTTGGCTCCAGGGGCCTTGGGACTGGCTTCCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCCAGGACAGGCTC
ACGTCCTCAGCGACCCACTGGTGACTGACTTCCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCCTCTCCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAAA
AATCCAGGGTCATTACACACAGCATGGAAATTAGCACAAAATGCTGTGCAAACGTCAGATGCTCCCAAACCAGCA
AAGGGATGGGCTTGCTTCACATCAGATGCGGGCACGCCTTACCCCTGCCTTCCGTGTCCCCACCCCAGGGTCAAG
GGTTCCTCAGACCAGCCATGCCTCCTCCTCCTGCCGCCTCCTTTTCTAGATGGGGAGGGGATTCCGTCACAAGAA
GAGCCGCCCCTCGGCCGTGTGCAGGAAGCCCCATGTCGCTTTGCCGAGATCAGCCCTGGGAGGATCCCCTTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGCTGCGGACACAACTGACCTGCTTCTCGAGGTGGTTGATGTTTTAAA
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6614/6881
FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTTCCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTCGGGGTGTGCTGTCTGGATGTGGTGCGCTAAA
AACACGGAATAAAGATCAGTGAC

6615/6881
FIGURE 6107

MASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLLHGTLLRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQQKPRPEAEPPSPPSGDLRLVKSVSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYDSRNDEVHQDTYRQIHIDIPRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEEVDTVDVSGVPAEVLCNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFS
HFHLYVCAAFLVRWRKEILEEKDFQELLLFLQNLPTAHWDDEDISLLLAEAYRLKFAFADAPNHYKK

6616/6881
FIGURE 6108A

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GTCCGGCGGCGTCGCGGGCGGCGGGCGGCGGGGGCCGCGGGAGGGGCGCGGGGGCAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCGCGCCGCCGTCGTCCGCAGCCGGCCGGGAGCCGCCCCAGAGGCCGGGCCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCCTCAGGACCAGAAGCACGTCTCTGCTGCACA
CATTGTTGTCTACACCATGAGTGTTTAGTAGCAGGACTCTTGGAAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTCGGGGGCACAAATGAGCACTTGGATCAGTGTTTTATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAACTTGAAAACTTGTCCCAAAGAGGACGGTGATTTCGTTTCTGATA
AAATAAAGTTTAAAATAGAAGAGGAAGATGATGATGGAATTCCTCCTGATAGTTTGGAAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCCAGTACAGCAGCACCC
TATACGACGTGGCCATGGAGGCCGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTACTGTGTGAAGGAGTTCA
GCAGAGGCAAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
·TCATTCAGGAAAATGGCAGTGTGTCTGCCGTGTCCTCGTTCCCCTCTCCCTCACTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCCTCTCACCCATCAAACTTGTCCAGAAAGTGGCGTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTCGTCTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTCGCCACTGGACAACTCCAAAGCTGTCTGCATTCACTGCATGAACGAGTTCAGCCGGGGGAAGAATG .
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTTGCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCCTTGCTGCCGCCGGAGGGGGAGC
TCAGCTCTGTGTCCTCGTCTCCAGTAAAGCCGGTCAGAGAGTCCCCTTCGGCCTCCTCCTCCCCTGACAGGCTGA
CTGAGGACTTGCAGTCTCACTTGAACCCTGGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCCTCGGCGTCCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCCTAGATTGTTTGAATCTG
GCGCCATCTTCCAGCAGAATAAAAAGGTCATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCC
CCATGGACAGCCTCAAGGCCGAGTGTCGGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGATGTGGGCA
CCAGCTGCCTGATGAGACATCTCTACCGGCGCCATCCAGAAGTTGTCGGGAGCCAGAAGGGCTTCCTGGGTGCAA
GTCTGGCAAACTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTCCTCTTCCAAATTGACTGACTTGCCAACAG
TGGTCACAAAAAAACAATCAAGTTATGTTTCCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACCAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAAACTGAGGTCTCGGAGA
CGGCTCGGCCCTCCTCTCCGGACACCCGGGTGCCGCGGGGCACAGAATTATCAGGCGCTTCCTCTTTTGATGACA
CCAATGAGAAGTTTTACGATTCTCACCCAGTTGCCAAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCCGCCCCTTCCTACTTCTCCAGGACAGCTATCCCÃGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTCACGTCTGGAATATGGATGAGTAACCAGACCCGTGAGTACC
TGACCCTCACGGCCCACTGGGTTTCCTTCGAGTCGCCAGCCCGGCCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTCGCAGGTGGACTGCGACTACAGTGGCAACAGCATTCAGAAGCAGCTGGAGTGCTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTCAGGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCAGTGCTTCAGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGGAAGATCTGCGAGCGGGTGCACCGGTCGCCCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGCTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGGAGCA
CTTCCTTCCACATGCTCGAGCGGCTCATTGAGCAGAAAGGGCCATTAACGAGATGTCCGTCGAGTGTAACTTCC
GAGAGCTGATCAGCTGCGACCAGTGGGAGGTCATGCAGTCCGTGTGCCGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCACGCAGATGTCCACCCTCAGCCAGGTCATCCCCATGGTACACATCCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGAGCCGCCTGT
CTGCCACCCTCCACGACCCGCGGTACGTCTTCGCCACGCTGCTGGATCCTCGCTACAAGGCCTCCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACTCGAACTCATGAATTCTACCTCAGAGGACGTGG
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6617/6881
FIGURE 6108B

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CTGCCTCCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCGTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTTGGGCTGCCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCAACACACCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTTGAAAAACTTATCTTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAAACTCACGACGGCACCACTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCCACGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAGACGTCCACTAGAAA
TAGCTTGTCCTGTCAACTATGAAATATGGTGACTAGATTTTAATTCATAACCGTAAAGTTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAGAAGATGTAAACCATTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAACTGTTTACTACGACAGAGACGTGGCATTTGGAAACGAAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTCAGGTTTCTGCATTCAGGCTTTACATGGTCAGTTAA
CTCAGAGATACCCCAGCTGTTTATCATCAGCTCCTCTGAAATGTGATCCCTTTGTAACTGTGCTCATCACTTCGC
CAGTGCGTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCCACGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAAATGTGTGCACTGACCCCCTTGTTTGATCAAATTTGTGTAAAATTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTTATATTCCAGTTGTAAGAATAGCCTTAGTGTTTAGATTTTTTTATG
ATAGGGAAGATGCGGCCATCACTGGGATATTTTCAAATCCCAAGGACATCAGAGTGAAGTGTCAGTTGTCAGATG
ATTTTAAAAGTTATGTCTTCAGAGAAAAAAAGATTCATTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTTGCCTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGTATTTATAAATGGTGAACTCAGTTTCTGAAATTAAACTTCTTATTTGCAATTTT
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6618/6881
FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCCTGT
TGGGACAGAACTCCCTGCTCTGGTCTGACCCTCTGCACGCTAGGGTGGTCCTGCACCTGTCGGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGCTGCCTGCCATCCCAGTTCTGCCATTCCCCCAGCGC
ACCCCCGCACCCGCCCCTCCAGCTGATGCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTCGGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTCAGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGG<u>ATG</u>TGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTCTGCAAGTTCCACCTGGGTGACCGACC
CATCCCCGTCACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAGGTCAGGCTGGCTTGGGGCCTGTG
CTTCCTGTCAGACCCCATCAGGTAGGGCTGCCCCCGGGACCCTGGCCGGCCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCCTGTGCAGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTCCTTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCGGTGTCCACAGTGCCAGCCCCACCCCCCCAGCCCGTTGCCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GA<u>TGA</u>TGGCCGAGATGATTGGCGAGTTCCCAGACCTGCACCGCACCATCGTCTCGGAGCGCGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGCGCCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCCGCCCGCAGGCGTG
GGACCCCCTGTGAGGCTGAGGCCCGAGCAGGTACTGACCCCTTGTCCTTCCCCACAGCCGAGCCCAGGAAGTGCG
TCCCCTCCGTGGTCGTGGGCGTCGTGGGCATGGGCCACGTGCCTGGCATCGAGAAGAACTGGAGCACCGACCTCA
ACATCCAGGAGATCATGACCGTGCCCCCGCCGTCCGTCTCCGGCAGAGTGTCTCGGTTGGCCGTGAAGGCCGCCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCGCCGCACCGCGAGCCTGGTCCTGTCGCTGCCCGCCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCCCGCTCGGGCCCCTGA
GGAGCCAGTGCCCCCGCGGCACTTCTGGGTGCCAGGTGCATCCTAGCCCGCCCGAGGCCCCTGCCACCCCCCATG
GGGGTCTGGGCCCGGCCTCGCCTGCCCTCCTGGGCCAGTCACCCCTCCCCCAGCCCACCCAAATAAAGGATTATT
TAACTGTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6110

MWLTGVVRGSQCSPTPSLCSRPARCLSASSTWVTDPSPSPSRGPSQRSPSGRRSGWLGACASCQTPSGRAAPGTL
AGLQGGLWEAPGPPVQVQAQPILTQGLPCPFLPPQIPNKRAVVPARCPQCQPHPPSPLPIPAGLQPSLSTARMTW
NAASRRTYWSR

6620/6881
FIGURE 6111

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GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCCGGGCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGAGTCCACGGT
GGTGCGCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGCTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCCTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAACTGCCCCTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTCGCGCTTATGGGCACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCCTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAACTACATCGC
GCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACTGGAGACCCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGCAGCGCTC
CTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACCAGCAACTCC
CTCG
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6621/6881
FIGURE 6112

MYLGEVCTATGERWELQLKGAGPTPFSRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFY
DGNPKYEQCTVVLRVASTFIRFGSFEIFKSADEHTGRAGPSVGRNDIRVQLLDYVISSFYPEIQAAHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPFGFLDRYDPDHVCNASDNTGRYAYSKQPEVC
RWNLRKLAEALQPELPLELGEAILAEEFDAEFQRHYLQKMRRKLGLVQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPGLAEFLARLMEQCASLEELRLAFRPQMDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDLEGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLLETPYHCEAGAATDAEATEADGADGRQRSYSSKPPLWAAELCVT

6622/6881
FIGURE 6113

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GATTCTCCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCCGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCCACAGCGCCCCCTCCCTGCGGCTGCACCCTCGGCCGTGCCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCGTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACTCTGCCTGCGCGCACACGGACTCCTTGAACACCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCCGCCTGCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG
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FIGURE 6114

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GCCCTGCTCTAGCGGGCCGCGTAGCGGACATGGCGGGCTCCCGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTGG
CGGCCGTCTTCATGTTTGCTTTCGCTTCCCTCTACACGCAAATCCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCATCTACTTGCTGCTTTGGGCCGCCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCCACCGCAAGGAGGCCCCCCAGGGCAGGCAGGCAGGGGCCCTGCCCCACGAAGACC
TCCCCTTCTGGCTGGTGCGATGGCTGCTGTTCCGCCTCATGTTCGCCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGGCTCACTGCCCTCACCTACCACTACGAGACCCAGTGCCTGCCCACGCCCGCCGCCTGGT
TCGCACACCACCTGCCGGTCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCCATTCGACGCCTGCGCTTGGCTGCTTTCTACTCGCAGGTGCTGCTGCAGGTCCTGATTA
TCATCACCGGCAACTACAACTTCTTCAACCTGATGACGCTGGTGCTTACCACTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCCTGT
CGCTGCTGCTGGAACTAGCCGTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCACTTTCACCTTCCACCAGTTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTGCTGTAGTCCAACTGTCCCTTGTGGGCACTGCGACCGTGGCCTTGTTCCTGA
TTAGCCTGGTGCCGTACTCCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGCCCACCGCCTGTTTG
GTGCCGTGGAGCACCTACAGCTGGCCAACTCCTACGGCCTCTTCCGCCGCATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGCTGGAGGGCAGTTACGACGGCCACCACTGGACGGAGATCGAGTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCCCGGTTGTGGTGCCCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGCAGCCCTGGGCCCAC
ACACGCACAGCCCGTGGTTCACAAGCCTGGTCTTGCGCCTGCTGCAGGGCAAGGAGCCAGTGATCCGCCTTGTCC
AGAGCCAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCCACCTACGTCCGAGCCCAGCGCTACAAGTACTGGT
TCTCCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCCACCTCGCACCCGCAGCGCCA
ACAGCACCCTGGCCCAGGCCCTCCACTGGACTCGCTCTCAGCTGTCTCCCCTGGAGGCCCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGGCTGTCAGATTTGTGCAAGCCCTGCTAGCACCCTGTTCTCTCCGGTCCTCCCCGC
TGGCACCAGTCAGCGGGGAGAAGCGCAGGCCAGCCTCCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTCGAGGACCACCCGGCGAAAGAAGTAGCTGTGTTCTCCCAGCTGCACGT
CCTGAGAGGGCCAGGTCGCCGGGAGTGCTCTGGCCTCCGGCAGGACAGGACCCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTTGGGGGGCTGCCCCTGGGGTTTGCAGGGTGCTGCATTGAGGGCTCCAGGCCCCAC
CCCCACGCCAGCCATGCCCCTCCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCCAGGAGGAAAACACGACCA
AGCTCAAGACCCTTCCCCTGCCCTGGGCTGTGGGGGTCTGAGTCTAGAGCCCCCAACCCTAGGCCCCGTGCCAGA
GGGGAAGAGGCTGACTCCCAGGGGAAGAGGGGAAGCACTGTCATCTTCCACGTCATCTTCACACCAGCCCATCCT
GCCCTTTAGATCTGGGCACCAATAAAGGCGTCTTTTGTGCTTG
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FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLLSPLRHPVIYLLLWAAYLSACQVGQVFLYFQWDSLLLETGFLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLTSRCPAWWGLTALTYHYETQCLPTPAAWFAHHLPVWLH
KLSVVATFLIEIAVPPLFFAPIRRLRLAAFYSQVLLQVLIIITGNYNFFNLMTLVLTTALLDDQHLAAEPGHGSR
KKTATSWPKALLATLSLLLELAVYGLLAYGTVHYFGLEVDWQQRTIHSRTTFTFHQFSQWLKTLTLPTVWLGVAS
LVWELLSALWRWTQVRGWLRKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLFGAVEHLQLAN
SYGLFRRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPPVVVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLLQGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWWRRQWVEEFFPSVSLGDPTLETLLR
QFGLQEKSPPRTRSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSPLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRRKK

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FIGURE 6116

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AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCCACCTCTTGCAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTT
TGACGAAGGCAAGACCACAATGAACTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTCATCTCTGGAAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCCAGGAGGCAGAGAATGAGTTCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCCAGTGTGAGTCCTCA
TCATCCCCCTCCTGCCCATGGCCCTGGTGGCCCCTGATGAAATGGAGAAGAACAACAATCCCCTGTACAGCCGTC
AGGGTGAGGTCCTGGCCAGCCGGAAGGATTTCAGGATGAACACGTGCGTTCCCCACCCCAGAGGGGCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCCATGGAACCAGCGGGCGTTTCCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTCCCAGCACTCGGCTTCTCCCAGGAGCCAG
GCCCCTCTCCAGAAGGCCCGATGCCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCCTG
AGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGGAGTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCCTTTGCAGACATGGAGGTCCTGTACT
GGACACACGTGAAGGAGCAGTTGGAAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCCTGGAAGACCTGGGGGGCAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCGAGGGAGCAGACCCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTCGAAGGAATGTGGAGCTCTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGCTGGTCTCACGGTTCCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTCGTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCACGCACCAGCGAGCGCACAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCCAGCCCTGAGTGGGGAGCACCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGGCCTAATAAAGCAGTGTTGCCATCTCATCTTCCCCCTAAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGCTGCCTGGCCTCCCTGGGCCGCTGGTACAGATCACACACACAC
ACAGATTAAACGCAGCCCGTTTAATGATGGGGCCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCGCCGCACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCCTGGTCCTCATCCTTGGGGCCTGCATTGTA
GTACACGCGGTAACTGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGGTCAGACCCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTCGTCCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACCAGGCTCTGCTTCCAGCTGCCGCACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCCACTGGCCCCGGAAGTCAGCCTTGCAGCGAGCCCGGCCTCTGTG
ATCCAGCAGGTGGAAGTCGCCCTGGCCCACAGCTGCCTGGCGCAGGGCTTCTGTTCGCTTTTGCTGCTGCAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCGAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCCAGGGTCCCAGGGAGGACCCGAGGCTTGAGCTGAGAGAGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCCAGGACAGTGCCTGGGCTGCCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCCACGTTCAGG
CTTAACAGGCATTTGCAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCCTCTACCTGGGATCACCAGCCTGTCACCGCACCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGCTGACGGAAAGCATTCCAAGTGCATGCCTTGCCTGAACTAACCACGTTATCTATTTGCAATAA
ACCCATTTCTTAAAAGG
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6626/6881
FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPMPGTQKDTGRTEEQP
MEVSVCRSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALEPKESRSPQQSAALPRRYMLRE
REGAPEPASCVKETPDPWQSLDPFDSLESKPFKKGRPYSVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHA
DSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLEDSLEDLGAADDFLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSQRIRDWEDTVQPLLQEQEQHVPFDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVDTMSLRLLTHQRAHKRFQTYAA
PSMAQP

6627/6881
FIGURE 6118

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GCTTTCCACAGCGCGGGGGAACGGGAGGCCGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAACTGGATGGTTTTCCTTTGTTGA
GAAGACTGAAAACGTTGTTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTCACCAATAATAGGCTCGTGGAACTGGGTGATCTGGACCCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGT
TCCGCAAATCAGAGTACTGGATTTCCAGAAAGTGAAACTAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAAACTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCTTCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGTCTTGGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTGTTAGCAAAGTGGAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC
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6628/6881
FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCCTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACTCTCCGCGCCCGTTCTCCGGCTGTCCTCCCGTTCCGCTGCCCGCCCTGCCACCATGACGGAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGCAGGTCCAGCACGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCGTGG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGCTGTCCTTCTGGAGGGGCAACCTTGCCAACGTCATTCGCT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGCGTGGACAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGCGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTCGCCAGAACCCGCCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGCGAGTTCCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCCTACCCCT
TCGACACGGTGCGGCGGCGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCTTCTTCAAGGGTGCGTGGTCCAACGTCCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCCTCCAC
ACACACACACACCAGGGGAACCAAGAGAACCACGTAGAATCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGTCTTTTTCCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAAACAAAAGAATCACGTTTTCCCATTTGTACTTCAGCGCTAGCCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

6629/6881
FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTAVAPIERVKLLLQVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGT
EREFRGLGDCLVKITKSDGIRGLYQGFSVSVQGIIIYRAAYFGVYDTAKGMLPDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDTVRRRMMMQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFVLVLYDELKKVI

5630/6881
FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCAGTGTTCCCACTTATGTGTGACCTTGGTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCCAGATGCTTCCAGATCTTCCAGATGCTCCCAGAAGAGCTAGAGCAGAGGCAATGA

6631/6881
FIGURE 6122

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TCCAAGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCAGTGTTCCCACTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAACTATCGCAAGGACAGAAAACCAAACACCGCGTGTTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCCT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTCTTGTGACCTGGAACTAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A
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6632/6881
FIGURE 6123A

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ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCGCATCCTTGTGCCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTTAATAGCATACAGGCCCTGTCAGAAACCTCATTT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTCACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGT
CTCTCTAACTTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTGGAAGGAAATCTCCTCCACCAGCTGCACCCCAGCACCTTCTCCACGTTCACA
TTTTTGGATTATTTCAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCCTGCC
AGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCGATTGTGAGATG
AGATGGTTTTTGGAATGGGATGCAAAATCCAGAGGAATTCTGAAGTGTAAAAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTGCAATGTGCTTCAGTCCAAAGAAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCCTGGAGAAATTCCAACTGCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAACTTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAATGCAACAGTTGCCTTGGACTTTGAGTGTCCAATGACCCGAGAAAACTATGAA
AAGCTATGGAAATTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGCTACCAGTACAGGCAGGATGCTGATGAGGAAGCTCTTTACTACACAGGTGTGAGAGCCCAGATT
CTTGCAGAACCAGAATGGGTCATGCAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTCCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAAGAGATCAGACTGTCCTGGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTACCAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCCAGGGGAGTCGGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTTGGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACTCTTTCCATCCCAAAGGTCCAAGTCAGTGACAGTGGTTACTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAAGAGGCAGACGCCCAGGTGCAAAGGCTCTTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACACTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCCTCAAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTCG
GAAAAAGAACCAGAGACCAATGTTGCAGAAGGTCGCAGAGTGTTTGAATCTAGACGAAGGATAAACATGGCAAAC
AAACAGATTAATCCGGAGCGCTGGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAA
GTACCCCCATTGATTAAAACCACAAGTCCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTTCCTGCTATTTCT
CCCCCCTCAGCATCTCCTGTGCAGACAGTAACCAGTGCTGAAGAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTTGGGTACCATTTCCTCAGCCAGCATGGGGCTAGAACACAACCACAATGGAGTTATTCTTGTT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCACCCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTCACCAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCTGAGTCTGAGCCCATG
CAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTTAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACACCAAGGCAAAAAGTTGCTCCGTCATCCACCATGAGCACTCACCCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCCAACAAATTCCGCCACCGGCACAAGCAAACCCCACCCACAACTTTTGCC
CCATCAGAGACTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTTCAAGTCAAGTGGAGAGTTCTCTG
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6633/6881
FIGURE 6123B

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GTTCCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGGAAATGGAGAAGAATGCAGAACCCACA
TCCAAGGGAACACCACGGAGAAAACACGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAACATTGTTACTCCCAGTTCAGAAACT
ATACTTTTGCCTAGAACTGTTTCTCTGAAAACTGAGGGCCCTTATGATTCCTTAGATTACATGACAACCACCAGA
AAAATATATTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAATTTAAGGAAGAATCCTCTCCTGTAGGCTTTCCA
GGAACTCCAACCTGGAATCCCTCAAGGACGGCCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCACTTCT
GGGGAAAATCTTACAGACCCTCCCCTTCTTAAAGAGCTTGAGGATGTGGATTTCACTTCCGAGTTTTTGTCCTCT
TTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTTCTTCCACAACTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCCATCCACAATTCTC
ATGTCTTTGGGACAAACCACCACCACTAAGCCAGCACTTCCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTTGAATTATGTGGGGAATCCAGAAACAGAAGCAACCCCAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCAGGATGCATTTAACTTGTCTACAAAGCTGGAA
TTGGAAAAGCAAGTATTTGGTAGTAGGAGTCTACCACGTGGCCCAGATAGCCAACGCCAGGATGGAAGAGTTCAT
GCTTCTCATCAACTAACCAGAGTCCCTGCCAAACCCATCCTACCAACAGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAACTTCCCAGTCACCTCGTCACTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAAACAGTTTACAACTCCAAGATTATCAAGTACAACAATTCCTCTCCCA
TTGCACATGTCCAAACCCAGCATTCCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCCAGTCCAAGAATTCCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTTCTTTTCCACAGTTGGGAGTCACCCGGAGACCCCAG
ATACCCACTTCTCCTGCCCCAGTAATGAGAGAGAGAAAAGTTATTCCAGGTTCCTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCCGTTGTTGCACACTCCGCAGACCACGGGATCACCCTCA
ACTAACTTACAGAATATCCCTATGGTCTCTTCCACCCAGAGTTCTATCTCCTTTATAACATCTTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTGCAGGAGGACCTCCTGCATCCAAATTCTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAAGTCCCCACAGACTGTGTCCGTCACCGCTGAGACAGACACTGTGTTCCCCTGT
GAGGCAACAGGAAAACCAAAGCCTTTCGTTACTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACAACGGTTTGAGGTTCTCAAGAACGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGCACCGCCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGCTTTCGGTCACCGTGCAGCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCATTGCAATGGAGTGTCTGGCCAAA
GGGACCCCAGCCCCCCAAATTTCCTGGATCTTCCCTGACAGGAGGGTGTGGCAAACTGTGTCCCCCGTGGAGGGC
CGCATCACCCTGCACGAAAACCGGACCCTTTCCATCAAGGAGGCGTCCTTCTCAGACAGAGGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGGCGGACAGCCTGGCCATCCGCCTGCACGTGGCGGCACTGCCCCCCGTTATCCAC
CAGGAGAAGCTGGAGAACATCTCGCTGCCCCCGGGGCTCAGCATTCACATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCCAGCGTGCGCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCCTCGCAGTTCCTCCACGGGAACTTGTTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCGTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCGCGGAGGACGGACGTCAGGTACGGAGGAACCCTCAAGCTGGACTGCAGCGCCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAGTTTTGATAGCAGAATCAAGGTG
TTTGCCAATGGGACCCTGGTGGTGAAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGCTCAAAGTGGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGGACTGTGTGGCCACCGGGCTTCCCAATCCCGAGATC
TCCTGGAGCCTCCCAGACGGGAGTCTGGTGAACTCCTTCATGCAGTCGGATGACAGCGGTGGACGCACCAAGCGC
TATGTCGTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTCGGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCGCCACCATCCGGAAC
AAGACTTACTTGGCGGTTCAGGTGCCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTTGTCCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT
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FIGURE 6123C

GGCACTCTCCTTATTCAGAAAGCCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTCACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGAGATAGCAGCCGGGGGCAGTCGGAAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCCGAGG
GTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCCTGGACATCAGGAGTTTGAGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCACGCAACGAGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCCGACACCCAGCCTGGTG
TGGGTCCTTCCCAATGGCACCGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCCTCGGTGGACGCCGGGGCCTACCGCTGCGTGGCCCGCAATGCCGCTGGCCACACG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCCTGAAGCTCCCCTGCACCCCTCCCGGGGCTGGGCAGGGACGTTTCTCCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCCAAACCCTGGGACGCGTTTCTCTTCTGGACAATGGCACCCTCACGGTTCGTGAG
GCCTCGGTGTTTGACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTCACCAGCATCCCC
GTGATTGTGATCGCCTATCCTCCCCGGATCACCAGCGAGCCCACCCCGGTCATCTACACCCGGCCCGGGAACACC
GTGAAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTCAGGCTCGTCTGTATGGAAACAGATTTCTTCACCCCCAGGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAAACATTCTCGGCAGTGACTCCAAAACAACTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTTTGTAAGGGAAGCCA
GGTTGGGGAATAGGAGCTCTTAAATAATGTGTCACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACACTTT
CTTTTGTGTTTACATCATGCCAGGGGCTTCATTCAGGGTGTCTGTGCTCTGACTGCAATTTTTCTTTTTTTGCAA
ATGCCACTCGACTGCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATTGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTC
CAGATTGACAAGTCATCTTTCAGTTATTTCCTCTGTCACTTCAAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGACTGATATATATATATATTTTAATTCAGAGTTACATACATACAGCTACCATTTTATATGAAAAAAGAA
AAACATTTCTTCCTGGAACTCACTTTTTATATAATGTTTTATATATATATTTTTTCCTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAAAATTAATAAATTATTGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTTAAAAAATTTCTCTCCAACCTCCTTCAAATTCAGTCACCACTGTTATATTACC
TTCTCCAGGAACCCTCCAGTGGGGAAGGCTGCGATATTAGATTTCCTTGTATGCAAAGTTTTTGTTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACTGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCCAGAAACTTCTCTGCAGTATCTGGCTTGTCCATCGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTGTGCCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTTACTGTATTTTTAAGGTCAATAT
ACTGTACATTTGATAATAAAATAATATTCTCCC

6635/6881
FIGURE 6124

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GGCACGAGGGGAGGCCGGGGCGGGGCGGGCGCAGCCGGCGCTGAGCTTGCAGGGCCGCTCCCCTCACCCGCCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCGTGGGGGAGTATCTGTCCTGCCGCCTTCGCCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGGCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCCGGATGGTGGTTTCGATTTATCCGATGCCCTTCCTGACAATGAAAACAAGAAA
CCCACTGCAATCCCCAAGAAACCCAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAAT
GACGACCCACGACCACCGAACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGC
TTTTCAGATGCTGACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTCGTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGCAGAACAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTCAGCGTACTCTTTTAGAGAAATAGAAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCTTCTGTTCACGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGGATAGGCACTTGGACCCCCATTCTCCAAGGCCC
GGGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAACTCAAATGTCAACCCCACCG
AGGCACCCCCCCGTCCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTTAATTAAAATAAGGTAAGCCCTTCAATTTGTTTCTTCAATATTTCTTTCATTTGTAGGG
ATATTTGTTTTTCATATCAGACTAATAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAA
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6636/6881
FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPPNPPKP
MPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHRNANAEPAVQRTLLEK

6637/6881
FIGURE 6126

CGGGGCGGCGGCGGCGGCGTGAAGTCACTGCTGCTCTGGGTTCGGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCGGGGGAGGGCTTAGGTGCAGAAGGGCAGGCTGGCCGCGGCCGGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAAATTTAAAATTGTTTACAGTCAACACTGTTTCCAGCC**ATG**GGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTCAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTCAGAGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAAGCAAAAGAGTATTCACCAAGGGCACGAATTCGTTCCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTCACCATCCTGGACGTCCGTCCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCG**TAA**AGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTCTGAGC
GATACATTAAACTATTTTCCCCAGAAAAAAAAAAAA

6638/6881
FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMKGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPIRGTAAEN
KENLDPSNLMPPPNQTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKWKDEDISQKDMYNI
IRIHNQNNEQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVNKDYQFTILDVRPALDSLSAVWDRMKVAWWRWTS

6639/6881
FIGURE 6128

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GAGATCTGATGGTTTTATAAAGAGGAGTTCCCCTGCACAAGCTCCCTCTCTTGCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAACTTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGACTCAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTATGTTCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAAACTGTGTCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTCGTGGCTTTTCCT
TGTGTATTGGTTGAGGAACTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCAAGAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTTTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACCACTGCG
CCACCTCTGATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTCAGGCACAATCAGTGGGTC
AACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTCGGAGGGGTCCTTCCTCACAC
CTTTTCTGTGAGTGCGTCTGTGCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAACTGCCAAGTGGCACATGACTGTCCGGTTCACTGTGGGGA
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6640/6881
FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCLRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTLVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

6641/6881
FIGURE 6130

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CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAGTGCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGCGGCGGCCCGCGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGCAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCCACCAGGCCAAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCCTTCGTGACCCTCCGGCTGGCGTGCAATTTAATTTCGACTTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCCTAAACTT
GTGAAGGAAGAAGTGTTCTGGAGGAACTACTTTTACCGCGTCTCCCTGATTAAGCAGTCAGCCCAGCTCACGGCC
CTGGCTGCCCAACAGCAGGCCGCAGGGAAGGAGGAGAAGAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCAAAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCCAGGTGTTTCTGAGTTTGTCAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAACTGCAGCAGGAACTTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAAACTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAATTAGCTGTTCCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAAC
TGACATTAAATTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAAT
TATTCTTTTTTCAAGTTGAAACTTGCCTCTTCTACTTTAAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAAATTTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAAATGACCAAATTATACCAAAGAACTTAAGAGGAAGCACTTTCAGAACTATTCACTTGCCAGGTATTTTC
TAAAATTCCACCTGAAAGCCAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCGGAGGTCAGGAGTTCGAGACCAGCCTTGCCAACATAGTGAAACCCTGTCTCTACTAAAAATACAAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTCAGTCTC
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6642/6881
FIGURE 6131

ATGGAGAAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCCATATCCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGCCATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAAAGCCCCGAGGCTTTGTTCAGGTTTGGAAGCCGGAACCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTCCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCCACGGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCCTACCCCAAAGAGGATGATGAC
AAGAATTAA

6643/6881
FIGURE 6132

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TGTTTGAAGATACTGTGGAGGAGCGTGTCATCAATGAAGAATATAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTTATGACCCATGCTCTTCAGTGGCCCAGTCTTACCGTTCAGTGGCTTCCTGAAGTGACTAAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGATGCTTCCCATTGTGACAGTGACAAGGGTGAATTTGGTG
GCTTTGGTTCTGTAACAGGAAAAATTGAATGTGAAATTAAAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGCAGAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTGACTATACAAAAC
ACCCTGCTAAACCAGACCCAAGTGGAGAATGTAATCCTGATCTCAGATTAAGAGGTCACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGCATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAAGAAGGCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCACTTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCGTAGCTTTATGGGATCTGCGTAACTTAAA
ATTAAAACTCCATACCTTCGAATCTCATAAAGATGAAATTTTCCAGGTCCACTGGTCTCCACATAATGAAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAACTCCTGTTTATTCATGGAGGACACACTGCTAAGATTTCAGATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCATTTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTCACGACATCCGAACTGGAGGGACAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTTATCAAGCGCCAAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTTAAGTCCTCATTTTCTCAAACTAAGTGCTTGCTGTTCCCAAATATGCAA
GAATAACTTTTACACTTTTTCCTTCCAACACTTCTTGATTGGCTTTGCAGAAATAAAGTTTTAAAAT
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<div align="center">

6644/6881
FIGURE 6133

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MTHALQWPSLTVQWLPEVTKPEGKDYALHWLVLGTHTSDEQNHLVVARVHIPNDDAQFDASHCDSDKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHIIATKTPSSDVLVFDYTKHPAKPDPSGECNPDLRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSAVVEDVAWHLLHESLFGSVADDQKLMIWDTRSN
TTSKPSHLVDAHTAEVNCLSFNPYSEFILATGLRIRP

6645/6881
FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTCACAGCTGTCGCCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTACCGCGACCTCCGGAGGCCGGCGTG
ACAGGCTCTGTCACTAAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCCTTATTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAGGTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACCGGCTTGTTAAAAAGCTTAAACTCCAGAAA**ATG**AAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCTGAAAGTTACAGCCCCACTTTACCAGTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGACCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTCAGCCGTATTATGCATCTGATGGTGCAACGTATGGTTCTTCTTC
AGGGCTCTGCCTTGGCAACCCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACCAGTTGAAAATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCCTTCAAC
CTGGTCGGTGGAAGCAGTGGTCCTATTTCTAAAACAAACAGATCCTCTTGCATTATGCCCTCTTGTCGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAATGCTTTGAAAAT**TGA**AAAAA
TCCTTGTGCAAATTTAGATTGGGCCAACTTCTAGAGGCACCAATGCCTTCTTAGTGTGGAATCATTTTTCTGCCC
TTTAGTCGTTTTTGTTTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAAAAACCATTTAAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTATTATATTGTTTACAAATATATTTCATGCAAGAAACAGAAAAAAAAAAAAACCCT
TTGATTCTGGTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACTCCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTTCCTTTCTGCTATT
ATTTCTCTATATGTTTTATTTATTCAGATTTAGAGTAAAAAATAAGCATATAAACTTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTTATGCAAGAAATATTGTACCGCAAGGGTGGTTTGG
ATGAAGTCTGACTACTTTTTTTCAAACAAACTATTATATTAAAACTGTCATATTTTGGCTAAGTTTGGACCTATA
ACTACACTTTCATTGTTTGCATCTCTCTATGAAGATACGTCTGTCCAAACTTTTAAAAGGCATAACTGTATTTTA
TGTGTTTATTCTTTATATAGATAGTATTTTATATTTTATTCTCACCCGAAGTATTCACACAATCTTTTTAAAAAA
AATTTGAAATGGCATTTTGTATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAAATGTTTATTTTGTAAAA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCAACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTTCCATACAGGGAAGTTCTCCGTCCTATGCAATGTTTCTAATTAATTTGCTTAATTCTGAGCCATTAATCCTGC
TACACTTTGAATGATACATTAATTCAGACTAATCTTTGGGGGCTTTATTTTGTAAGTTAGAACTTTCAAGGGAAA
CATGTTCAACACTATTATTTTGTTATAAATTTATAACTTTGTTATTACATTGTGTAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTTGCTGTAATGTCAAGAAAATGTTCACCAGATGCAAGAATGT
ACCTTTTCTTTTTAGAAAGCCAAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTCATAAGATTCTTACTTAAACTTGGTCTTCTTTCAAATTGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCCTCAGGTGTTTACATAAATACTATGTTTTACAGTTTTCATATTTTAAAATATTAATAAAGTTAAA
TCACAATAGT

6646/6881
FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHPSDFSEHNCQPYY
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVLFLKQTD
PLALCPLVDLFRSHEIDGKALLLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQGKCFEN

6647/6881
FIGURE 6136

<u>ATG</u>AGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCAA<u>TGA</u>

6648/6881
FIGURE 6137

MSESISKSSQPLASKQEKDGTEKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRPNGRKNKDAAKTWKT
TTTPGRKPRGRPKKLEKEEEEGISQESSEEEQ

6649/6881
FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCGTGCCTCCTGGGTTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTC<u>ATG</u>AGGAAGATGCTCGCCGCCGTCTCCCGCGTGCTGTCTGGCGCT
TCTCAGAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTCACAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAATTATTCGTGGTTTC
TGTCACTTGTGTGATGGTCAGGAAGCTTGCTGTGTGGGCCTGGAGGCCGGCATCAACCCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTCACCCGGGGCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTCGAAGCTTACAACATGGCAGCTTTGTGGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTCATTCCTGGGCTGAGAGTGGATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGCTGCTGCCTATTGTAGATCTGGGAAGGGGCCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTCGTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
<u>TAA</u>GGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTTCTCAACTTGGTTAAGGAGGAAGA
AAACCCAGTCAATGAAATTCAATGAAATTCTTGGAAACTTCCATTAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

6650/6881
FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYYRMMQTVRRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAELTGRKGGCAKGKG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMSDPGVS
YRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFKSVS

FIGURE 6140

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GGGCGCAGCACACTCCCAGCCGGCCGCAGCCTGACACGCCGCGCGGCCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGCACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAAGAAGAGATCGACAGTATTTTGAACA
AAGTAGAGGAAAGAATGAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCCACCGCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTCACCTTATCAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTTGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAACTAAAACCAAAGATGGTCA
CTATGGTAGAGATTGACCAAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTCGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCCTGTGGAATTTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGGAAGAAAGCTAAACCCT
GAAGATCAGTAGCCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCCTTTTTTTAATAATTATTTTTAATTTAAAAAAGCAAA
TGGAAAATGTATATTTTGATGAGCTTAGGGTGTTTTTTTTTTGAAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCCCCATTAGAATGTGATTTTTGTTCCTTTTTATTTCTCTGTGGGCTTTT
GTTTTTGTTTTTGTTTTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAA
GATCTTGATGGTGTTTCTTTCCCCAAAAATTGACTTAGATATTAAAATTTGGTGCTTATAAGAGAGAGTTAAAAA
AAAATAGGATTGCTTCAATTAAAATTACAAAGAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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6652/6881
FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVVYDEDSPYQNI
KILHSKQFGNILILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVLILGGGDGGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRKTCGDVLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPEEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

6653/6881
FIGURE 6142

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GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGAAGAGCAGGCCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGCAGTCGGTCGTCCGCTGGACAAGCACGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCCATTTTCTGAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTCGATAAAGGTTCACTTTTTGGAGGCTCTGTAAAACTGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGTGCCTTTTTACATATTAAAGA
GACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTAAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCCAAGGA
GGTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCAAA
ACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAAACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCCGTGTCAGTACAGCA
GTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAACTGTATAAGCCTTTAAGAGC
AGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGAATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACTAAAGT
CCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTCAGGTCTCACATCAGGAATTTTCAAAAATGAA
ACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACTTTGTTGA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCCAGCCAGGCXTCCACCACCTGTGTTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGCTCCATCACAAACGCCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTCAGATCAGAGGGAAAGAAATACCAACCCTGCAATA
AGTGTACTAAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGCAGTGTATAATTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCCACATTTGATTACACATGTGAGATTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTCATAAAAATTGAAAATGAGAAATTAAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTAAGTATGGATACT
AGAGAAAATTAAGTTTTCTTTCTCTTTGGTTTATTGATTGGTTTAATTTCCATTATGCTATTTTGCATAATCAA
GGCACTGTAAATCTTATAATTTTAAAATAAATTACTTAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTCTGGTATTAGTCTCATTTTGTATGTATATAAGTTAAACAGATACTGTTTTTAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAAATCAAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTTGACATTTATTTTAGAAAGTCCTATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAATTCTGGTAATAATTCTTGCATTTTTTCCCCAATAACCTGGTTAAAATAGAATACGCCAT
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FIGURE 6143

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TTTCCTTCCTCTTTTGGCAACATGGCGGGCGGAGAAGCTGGAGTGACTCTAGGGCAGCCGCATCTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTCATACTGTCAGG
TTCAAAAATGAACTAGAAAGAAATATTACAATCAAGCTTGGATATGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCCTACGGACATTCCA
GGGACCAAAGGGAACTTCAAATTAGTCAGACATGTTTCCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAAACTGAAGCATATTTTGATTCTACAAAATAAAATTGAT
TTGGTAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCTTGCATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATTATTCCAATTTCAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTACTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAAACTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTGCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAAATT
GACCCCACTTTGTGCCGGGCTGACAGAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAATTGGAAATTTCCTATTTCCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAATACCAGTTAAATAATACATTCGGATGGATTTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTCACAGTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTGGTTATGAAAACTTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAAATTATACATCATGCAGTTCTGTTTTTTT
GTTTGTTTAATTTTGTTTTGTTTTTGAGTCTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAGCCCACATCATACA
GTTTGAAATGAAACTTTGCCACAACCAGCCTTTGCTGTAGCACACACATATCACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTCATGATTCGTCTTTGAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAAACTTAAAG
GCACAAATTCTCCTTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTTATGTTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTCGAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCCCATGGACAAATATT
TTTCTCCCCTTGCTCTTCCTGGCCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTTCTGCGTTGTTTAATGCCTGAAATCCAAGTCTTCCTCCATGGGAAAATACTGTTATACCAAAT
AATTCTAGATGAGTAACAAAGATCTTTTTAGGCCTTCATTTTATGTTTTTTCTTAACTGTTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTTGGATGTTTCAAAAGGTCAAGAAGTAAAAGATGTTAGAAAGCAAAAAAA
AAAAAAAAAAAAAAAAAAAA
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6655/6881
FIGURE 6144

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKAISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPQPQTSEHLAAIEIMKLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFTSEPRLIVIRSFDVNKPGCEVDDLKGGVAGGSILKGVLKVGQEIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRRVEKH
WRLIGWGQIRRGVTIKPTVDDD

6656/6881
FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAAATGTGCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGA
AACATAGTGGAGGCCGCAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

6657/6881
FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCACTGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGCACAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAATCCATCCT
GGATCATG

6658/6881
FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATC<u>ATG</u>CCTCGTGGTCAGAAGAGTAAGCTCCGTGCCCGTGAGAAACGCC
GCAAGGCCCGAGATGAGACCCGGGGTCTCAATGTTCCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCCTCTTCTGTTTCTGGGGGTGCTGCTTCAAGCTCTCCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGCTGCGGGTGTTTCATCCACAAAATCTAAAAAAGGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTCCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGCAGTTCCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATTG
TTGGCAAAAGGTTCAGGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCCTGGGACTTTCCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCTGGAAGCTCATCACCAAAGATCTGGTGCAGGAAAAATATCTGGAGTACAAGCAGGTGCCCAGCA
GTGATCCCCCACGCTTTCAATTCCTGTGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCCTGGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTC<u>TGA</u>GCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAAGCCAAGT
TTACCTGCTGTTCTCACCCCCAATGAGGTCTTAGGCAGATTCTTTACTTTGTAATTCAAAAGGCCTGTTAACCTT
TGTTCTTGTTATGCATGAATAACTTGTTGACTTTTTTTTTTTCTCTTTTTCAACTAGTGTTTCAACAGGTTTATT
TAGATTCAGAATGTAAATTTACAAATGATATAGATCACCCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTGAGTGAAACAACTTATTAATAAAAATCCTTAAATCACTTTTGTAATCCAGGACAAGAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAAGACCCCATAGTGAAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCTTGGTTTACTTCATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTTGTTTATGTTA
TTCAAGAATGTGTGAGAAATTAAACCATAGTTAGTTAA

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FIGURE 6148

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEEEEAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFREHFP
EILKKASEGLSVVFGLELNKVNPNGHTYTFIDKVDLTDEESLLSSWDFPRRKLLMPLLGVIFLNGNSATEEEIWE
FLNMLGVYDGEEHSVFGEPWKLITKDLVQEKYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

6660/6881
FIGURE 6149

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTTAGACT
CCGAT**ATG**GGGTCCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCCTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACTGTGGGTTAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAACTGAAAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCGATGATGCACAACAAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAAC**TAG**TGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATAACATGGTTTTTGTAACAATAAATGTAGGATATTTCCTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAAAAAAAAAAAAA

FIGURE 6150

MGSSKKVTLSVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSMAH
EDFCGHTGKMNPGDLQWMTAGRGILHAEMPCSEEPAHGLQLWVNLRSSEKMVEPQYQELKSEEIPKPSKDGVTVA
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIYTISGDVYIGPDDAQQKIEPHHTAVLGEGDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGPFVMNTNEEISQAILDFRNAKNGFERAKTWKSKIGN

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FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTCGTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAATATGAC
TCCACCCATAGCAAATTCCATGGCACCGTCAAGGCTGAGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGC
GTCTTCACCACCATGTAGAAGGCTGGGCCTCATTTGCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCAATGTTTGTCATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACTTTGGTATCGTGGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTCAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATT
GCCCTCAACAACCACTTTTTCAAGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTTCCA
TGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

6663/6881
FIGURE 6152

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CTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCCATGGCACCGTCAAGGCTG
AGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTCACCACCATGTAGAAGGCTGGGCCTCATTTGC
AGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTCATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATTGCCCTCAACAACCACTTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC
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FIGURE 6153A

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CCTCTGCCACCATGGGGAACTGGGCTGTGAATGAGGGGCTCTCCATTTTTGTCATTCTGGTTTGGCTGGGGTTGA
ACGTCTTCCTCTTTGTCTGGTATTACCGGGTTTATGATATTCCACCTAAGTTCTTTTACACAAGAAAACTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCTGCAGCCTGCCTGAATTTCAACTGCATGCTGATTCTCTTGCCAGTCT
GTCGAAATCTGCTGTCCTTCCTCAGGGGTTCCAGTGCGTGCTGCTCAACAAGAGTTCGAAGACAACTGGACAGGA
ATCTCACCTTTCATAAAATGGTGGCATGGATGATTGCACTTCACTCTGCGATTCACACCATTGCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCGAGTCAATAATTCTGATCCTTATTCAGTAGCACTCTCTGAACTTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGCTCGAAAGAGAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTCATCACGCTGTGCCTCATATTAATTATCACTTCCTCCACCAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCCAATCCCTCAGTTTGCTGGAAACCCTCCTATGACTTGGAAAT
GGATAGTGGGTCCCATGTTTCTGTATCTCTGTGAGAGGTTGGTGCGGTTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTCACCCTTTCAAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAAATGGAAGTGG
GACAATACATTTTTGTCAAGTGCCCAAAGGTGTCCAAGCTGGAGTGGCACCCTTTTACACTGACATCCGCCCCTG
AGGAAGACTTCTTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAAACTACCTAAGATAGCGGTTGATGGGCCCTTTGGCACTGCCAGTGAAG
ATGTGTTCAGCTATGAGGTGGTGATGTTAGTGGGAGCAGGGATTGGGGTCACACCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCAACTGGGATAATGAATTCAAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTTCCTCTGTGGACCTGAAGCCTTGGCTGAAACCCTGA
GTAAACAAAGCATCTCCAACTCTGAGTCTGGCCCTCGGGGAGTGCATTTCATTTTCAACAAGGAAAACTTCTAAC
TTGTCTCTTCCATGAGGAAATAAATGTGGGTTGTGCTGCCAAATGCTCAAATAATGCTAATTGATAATATAAATA
CCCCCTGCTTAAAAATGGACAAAAAGAAACTATAATGTAATGGTTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGGTTTTGAGAGCACTTTTACAAACATTATTTCATTTTTTTCC
TCTCAGTAATGTCAGTGGAAGTTAGGGAAAAGATTCTTGGACTCAATTTTAGAATCAAAAGGGAAAGGATCAAAA
GGTTCAGTAACTTCCCTAAGATTATGAAACTGTGACCAGATCTAGCCCATCTTACTCCAGGTTTGATACTCTTTC
CACAATACTGAGCTGCCTCAGAATCCTCAAAATCAGTTTTTATATTCCCCAAAAGAAGAAGGAAACCAAGGAGTA
GCTATATATTTCTACTTTGTGTCATTTTTGCCATCATTATTATCATACTGAAGGAAATTTTCCAGATCATTAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCATACTCCAGTTTACTAAT
ACAGCAGGGTAACTGGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATACTCATC
ATTTACCACTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTTGTTAAATGAATGAATGAATTTAGAACCACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAACTTCTATTACTGTCATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCAATAGGATTGCCTGAAGGGTTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCCTGCCCAAAGTGGTCTTCTCCAGCTAGCCCT
TATGAATATTGAACTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTTGTTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACACAAAATGGATCGCATCTGTGTGACTAATGGTTTATTTGTATTATATCATCATCA
TCATCCTAAAATTAACAACCCAGAAACAAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTTAGTGTGGCCAAGAGCAGGGTTTTCTTTTTGTTCTTAGAAC
TGCTCCCATTTCTGGGAACTAAAACCAGTTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTAGAACTCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAAAGAGCTGGGGGAAGGGCAGAAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAATAAAAAAGGCAAAAGGGAGAGAGAGGGGAAGGGGGTCTCATATTG
GTCATTCCCTGCCCCAGATTTCTTAAAGTTTGATATGTATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGGTATTGAATCTTTTAAAATCTGGTCACAAATTTTGATGCTGAGGGGGATTATTCAAG
GGACTAGGATGAACTAAATAAGAACTCAGTTGTTCTTTGTCATACTACTATTCCTTTCGTCTCCCAGAATCCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCGAATATAGCCTTTCTGAAATGTACCAGGATGGTTT
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6665/6881
FIGURE 6153B

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CTGCTTAGAGACACTTAGGTCCAGCCTGTTCACACTGCACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCTTTACACCAAAGTATGAACTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAATATTGGCCCTTTCTAACCTATGTGCATAATTAAAACCAGCTTCATTTGTTGC
TCCGAGAGTGTTTCTCCAAGGTTTTCTATCTTCAAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGGTTTTTCTTA
GTTCTTCTGCTTTTGCAATTGTGTTTGTGAAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGGAATTCTTAAAACTGTGCTCAACTATTAAAATGAATGAGCTTTC
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6666/6881
FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAACLNFNCMLILLPVCRNL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAIHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRQNE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAESLAVHNITVCEQKISEWGKIKECPIPQFAGNPPMTWKWIVGPMFLYLCERLVRFWRSQQKVVITKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACGCDKQE
FQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLKKIYFYWLCRDTHA
FEWFADLLQLLESQMQERNNAGFLSYNIYLTGWDESQANHFAVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAETLSKQSISNSESGPRGVHFIFNKENF

6667/6881
FIGURE 6155

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGTTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCACTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

6668/6881
FIGURE 6156

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESEIIDFCLGASLKDEVLKIMPVQKQIRAGQRTRFKAFVAIGDYNG
HVGLGVKCSKEVATAIRGAIILAKLSIVPVRRGYWRNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFDAISKTYSYLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRT
QAPAVATT

6669/6881
FIGURE 6157

GAACATCCAGTCATGGATAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGAC
ATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
GCTTATAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGT
GCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
GTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTGAAAATG
AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAGTCACAA
CAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
CTTAACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
GATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
AGAGACAACTTGACATTGTGGACATCAGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAA
CCGGCCTTCCAACTTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTCATCCATGCTGTCCCACAA
AGTTTTTTATTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATGTTTCCCATGTGGTTTTCAT
GTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTACCTGTTTTCATCTTGAGGTGGCCAATATGGG
GATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
GTAAAACTGCTTCCCTGTCCAAGCAAAGAAAACTGCCTACATATTGGTTTGTCCTGGTGGGGAATAAAAGGGATC
ATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAAACA
TACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
AACTGCAGAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCC
ATTATTTGTAAAGTTACCTGCTGTTAGCTTTCATTATTTTTGCTACACTCATTTTATTTGTATCTAAATGTTTTA
GGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCATTACTTCATCTGTAT
CAAGCACAGCAGTAAAACAAAAACCCATGTATTTAACTTTTTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTT
TTGATACTTGCCTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTCAT
GTAAGTGGAATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTT
GGTTCTGAAACTTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCTTATTCCCTCTTGGCAGCTAATGGG
CTTTTACCAAGTTTAAACACAAAATTTATCATAACAACAAAAATACTACTAATATAACTACTGTTTCCATGTCCC
GTGATCCCCTCTCTTCCTCCCCACCCTGAAAAAAATGAGTTCCAATTTTTTTGGGAGAGGGGAGATTGATTAGAA
AAAAATGTAATATGTTCCATTTAAAATTTTGGCGTATGGCATTTTCTAACTTAGGAAGCCACAATGTTCTTGGCC
CGTCATGACATTGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGA
TACTCTTATAGTCTGCCTTCAATTTTGATCCTTTATTCTATTTGTCAGGTGCACAAGATTACCTTCCTTTTTTAG
CCTTCTGTCTTGTCACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGACCTTTCTGGCTC
CACTCAGTGTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGC
AAATCTCTCCTTAGTTGATGAGATTGTGTTTATCTCCCTTTAAAACCCTGCCTATCCTGAATGGTTTGTCATTGT
CTGCCTTTAAAATCCTTCCTCTTTCTTCCTCCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCT
CACTTTACAAAATATTTCCTCAGTACTTTGCAGAAAACACCAAACAAAAATGCCATTTTAAAAGAGGTATATTTT
TTCTTTTAGAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCCTAGTACACTGTAA
ATGCTCAATAAATATTGATGATGGGAGGCA

6670/6881
FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAG
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TTACTGAGAGACAACTTGACAATGTGGTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

6671/6881
FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTCAGTCATTATCAAGTCAAACTAAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACTTCAGTCAGCAGCTGGCC
TTACTCCTCCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACCGCCACAAAACTTCTCAGCAACACCAAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACCACATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCACCGTAAAAGAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTCATCAGTTTGGATCGCTATATAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCAAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGCTCTTGGTGGATTCCTAACTATGATTATTTT
AACACTTAAGAAAGGAGGGCATAATTCCACAATGTGTTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTTAACTTCATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTTCTAAAAGGAGGTCAAAATTCCTAATTCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTATTGTACTTATCATTTTTACTATATGTTTTGTTCCCTATCATGCCTTTCGATTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTCACAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTGCTTAGATCCAGTCATGTATTTCCTGATGTCCAGTAACATTCGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAAAATACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAAATGAATTATATAAT
GCAGCCTCTTAATTCTTTGAAGAACTAAAAAATTAGGAAACAAGTTCTAGCATTTACAAAACTCAGATCTCAAAG
CTCTGCTTGTATTTGTGATATTTCATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAAATACATTTTTAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAAATAATTAAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTAAAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTAAAAGTAAATGATTTGGGAACTGACAATGTGTCAGAAAATATATGTTCATTTATCATTTTA
AAATCTTGTATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6672/6881
FIGURE 6160

MRSHTITMTTTSVSSWPYSSHRMRFITNHSDQPPQNFSATPNVTTCPMDEKLLSTVLTTSYSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLLIFCLPFRIMYHINQNKWTLGVILCKVVGTLFYMNMYISIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGGHNSTMCFHYRDKHNAKGEAIFNFILVV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARNSFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSVAVKIQ
SSSKST·

6673/6881
FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAAACTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAC
TGACCCCAGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTCAG
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTCAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAACTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTT
AAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

6674/6881
FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIQAAFREPRLLVVTDPRADHQPLTESSYVNLPTIALCNT
DSPLRYVDIATTRELTQWV

6675/6881
FIGURE 6163

CTGCAGAGACTTCCCAGGAAGGTCCAGCGCCCTCTCAGCCTTCGTACTCAGAACAGCCG**ATG**ATGGGCCTCAGTA
ACCTGAGCCCCGGTCCTGGCCCCAGCCAGGCCGTGCCTCTCCCAGAGGGGCTGCTCCGCCAGCGGTACAGAGAGG
AGAAGACCCTGGAAGAGCGGCGGTGGGAGAGGCTGGAGTTCCTTCAGAGGAAGAAAGCATTCCTGCGGCATGTGA
GGAGGAGACACCGCGATCACATGGCCCCCTATGCTGTTGGGAGGGAAGCCAGAATCTCCCCATTAGGTGACAGAA
GTCAGAATCGATTCCGATGTGAATGTCGATACTGCCAGAGCCACAGGCCGAATCTTTCTGGGATCCCTGGGGAGA
GTAACAGGGCCCCACATCCCTCCTCCTGGGAGACGCTGGTGCAGGGCCTCAGTGGCTTGACTCTCAGCCTAGGCA
CCAACCAGCCCGGGCCTCTGCCTGAAGCGGCACTCCAGCCACAGGAGACAGAGGAGAAGCGCCAGCGAGAGAGGC
AGCAGGAGAGCAAAATAATGTTTCAGAGGCTGCTCAAGCAGTGGTTAGAGGAAAAC**TGA**GACGTGCACCCCCATG
GGATGGAGACCCGAAGGGACTCAGACGGAGCCGCCGTGTTGGCAGCGCCTGGGTGTGGGCCCATTTTGGGGACCA
AACAGCAAGCTGTGGTCGGATGAGTGCCAGGACCTGTGTACCGGGACACGTGGGAGTCCTCCCAGCATGATGCTT
GACTGACCCGAGGAAGGTCCTCATGTTTCGTGCCTGTCATTCTCGGATGGCTGTGAGGCATTCCTTGGCAAGGGA
CGCTGCGTACCAGCGGTCCTCACCGCATCTCACATGGCTCCTGTGATGCATGTTGTCGCTTTCCCACCCGGGATC
TCCATCTCTCTTCCCTTCCTGCTGTCAGTAAGAGATCACATGTCTGTGTAGTGTGAATGCCTTGTCGCTGTCCTG
TGCTTTTGCACCATTGAGTTGACTGCCTCTGAGAAGCAGCACTAGGCCTGTTGAAATGCAATGTGCTGCCCTGAG
ATCCAGTTTCAAGAATGGGCAGGTAAACGCAGTGTGGGAAAGGAATGTGGAATGAGAACTTGGTGGTTCACCGCT
GTACTATTTGTGTAAATGTTTACGTATGTGATAAGCTACATGTATGTAAATGTTGCAATACCCCTAACAGTCGAG
TAGTAGTCTCCCTTACAGGAATTTTTGACGGGGTTCCTCATCATCAATACCAAATAAATATATGTAGGAATGGAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6676/6881
FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKTLEERRWERLEFLQRKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLSGIPGESNRAPHPSSWETLVQGLSGLTLSLGTNQPGPLPEAALQPQETEEK
RQRERQQESKIMFQRLLKQWLEEN

6677/6881
FIGURE 6165

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GGCACGAGGGTGGTCGGAGCGCCGACTCCCTTCTCGTCGTCGCCATTTTGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCCCTCCCCCCGATCTGCCTCCAGTCT
CGGACTTGGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAGGAGGTGGCGGCGGGCAGAGGTGAT
GTCTGGGAGCCCTTCCTTGACAGCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATCACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGGTGGCTGGGAAGTGAAACGGAGCCAGCGGCTGAGGAGGGGCCCCAGCAGCCCCCGAAGG
CCCTATCAGGAC**ATG**GAGTATGAAAGACGTGGTGGTCGTGGTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCGCAGCCGAGACCACGACTACCGGGACATGGACTACCGTTCATATCCTCGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGCGGAGGATTCCTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGCGGCGGCGGCACAGGCACAGCCCCACCGGCCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCGAGCAAGGGGAGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTCATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCAGTCGCACGGCGTGCAAGCACGGGAGGTTCGGCTGATGCGGAACAAATCTTCAGGTCAGAGCCGG
GGCTTCGCCTTCGTCGAGTTTAGTCACTTGCAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCCTGGGCCAGAAGGTGTCGATGCACTACAGTGACCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCGTCCAGAACTTCAAACGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCCTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGCAGCCCTACCAGGCCCAGGGAGTCCTGGCCTCCCAAGCCCTGTCACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGCGCAACCTGAACCCACACAGCACCATGGATTCCATCCTGGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCCTCCTCCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGGAGGCAGCCCAGCTGCTGCAGATCCTGCAGGCCCTGCACCCACCACTCACT
ATCGACGGCAAGACCATCAATGTTGAGTTTGCCAAGGGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGCTGCCTCTGTGGCCAGCACTGCCATTGCTGCGGCCCAGTGGGCCATCTCACAGGCCTCCCAAGGTGGG
GAGGGTACCTGGGCCACCTCCGAGGAGCCGCCGGTCGACTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGCACAGAGTCTTCCCTCTATGCCCATGGCTACCTCAAGGGCACCAAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCGAGGCCTCCCTAGAGCCTGGGGCCGACTCTGTGTCGATGCAGGCTTTC
TCTCGCGCCCAGCCTGGTGCTGCTCCTGGCATCTACCAACAATCAGCCGAGGCGAGCAGTAGCCAGGGCACTGCT
GCCAACAGCCAGTCGTATACCATCATGTCACCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCCACCGGCTACCAGCCCCACTGCCCAGGAATCCTACAGCCAGTACCCTGTTCCCGACGTCTCTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCCAGACCGGCCTCTACTATGACCCCAACTCCCAGTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCCTCGAAGGAGGGCAAAGAGAAGAAGGAGAAGCACAAGACCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCGCAGTCTCAACAAACAAAAAGAAAACTTCAAAAAT
AGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTCTGCCGACGCCAGTTCCCCAGCAAA
GAGGCGCTCATCCGGCACCAGCAGCTCTCAGGGCTCCACAAGCAAAACCTTGAGATTCACCGGCGAGCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGCAGCTGAACGC
AGAGAAAAGTATGGCATCCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGGCCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAAACACGGGTGCGGGGC
TCCGGCCTGGGTGCACGGGGCAGCTCCTACGGGGTCACCTCAACCGAGTCCTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGCCCAG**TGA**GCAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCCTGG
GGCAGGGAAGGACAGAGTGTTGGATGGCTGGGACGGGGCCTTGCTCTTGTCGGCCAGCCCACTCCCCAGCCAGAG
AGGGCTTGACCAAATCAAATTGAGGTGGTGACTTTTGTTGGAAAATTGGGCTGGGATCACGTCCTGTTTTGTAAT
AAAAGCTGAAAAGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 6166

MEYERRGGRGDRTGRYGATDRSQDDGGENRSRDHDYRDMDYRSYPREYGSQEGKHDYDDSSEEQSAEDSYEASPG
SETQRRRRRRHRHSPTGPPGFPRDGDYRDQDYRTEQGEEEEEEEDEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSHLQDATRWMEANQHSLNILGQKVSMHYSDPKPKINEDWLCNKCGVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQQTLPLGGRELSQGLLPLPQPYQAQGVLASQALSQGSEPSSENAND
TIILRNLNPHSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFAFIQLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRISAASVASTAIAAAQWAISQASQGGEGTWATSEEPPVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTKGPGITGTKGDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAVLKSELQSPTHPSSALPPATSPTAQESYSQYPVPDVSTYQYDETSGYYYDPQTGLYYDPNSQYYYNA
QSQQYLYWDGERRTYVPALEQSADGHKETGAPSKEGKEKKEKHKTKTAQQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSGESDSEEEQERGGPERE
EKLTDWQKLACLLCRRQFPSKEALIRHQQLSGLHKQNLEIHRRAHLSENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVDFEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRKKQGIVTPIEAQTRVRGSGLG
ARGSSYGVTSTESYKETLHKTMVTRFNEAQ

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FIGURE 6167

TGGCGGCGGCGCGACCCGGGGAACCGGCATTGATGTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTTCTAACTGCTCCCCTGCCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCGGCAGCTGTATGTGTTGGGCCATG·
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCCTGGTATCAGGCCTGCGGGGCCTGGGCGTGGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCCAGTGGGCTGATCTTTCCTCCC
AGTTCTACCTGCGGGAGGAGGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCCTCGCTGAGCTCAACA
GCTATGTGCCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGCTCA
CCAACACCCCCTGGAGGACCAGCTGCGAGTGGGTGAGTTCTGTCACAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGCTATGGTTTCTATGGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCGAC
ACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTCAGAAGTACAGGGCATGGTTGAACTCAACGGAAATCAGCCCA
TGGAGATCAAAGTCCTGGGTCCTTATACCTTTAGCATCTGTGACACCTCCAACTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTTCTCGCCCTGCCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGGATCTGGCACCCATAAACGCCTTCATTGGGGGCCTGGCTGCCCAGGAAGTCATGAAGGCCTGCTCCG
GGAAGTTCATGCCCATCATGCAGTGGCTATACTTTGATGCCCTTGAGTGTCTCCCTCAGGACAAAGAGGTCCTCA
CAGAGGACAAGTGCCTCCAGCGCCAGAACCGTTATGACGGGCAAGTGGCTGTGTTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAGTATTTCCTGGTGGGTGCGGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGA
TTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATC
GACAGTTTCTTTTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCGTGTGGGTCCTGACACGGAGCGCATCTATGATGACGATTTTT
TCCAAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAAGGCAATGTGCAGGTGGTGATCCCCTTCCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCATCTGTACCCTGAAGAACTTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCCTCTTCAAGCAGCCAGCAGAAAATGTCAACC
AGTACCTCACAGACCCCAAGTTTGTGGAGCGAACACTGCGGCTGGCAGGCACTCAGCCCTTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGCTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCCTGCCACCACTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACTTCCCTCCTGACCAGCTCACAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCAAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGCCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTCACCCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCCAGCCCAGACAAGCTCC
CTGGATTCAAGATGTACCCCATTGACTTTGAGAAGGATGATGACAGCAACTTTCATATGGATTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAAACTATGACATTCCTTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCGACAGCTTGACTCCTACAAGAATGGTTTCCTCAACTTGGCCCTGCCTTTCTTTGGTTTCTCTGAACCCC
TTGCCGCACCACGTCACCAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCCTCAAACAGTTCCTCGACTATTTTAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCCAGGGCGTGTCCATGCTCTATTCCTTCTTCATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTCGAAGCGAAAGCTGGGCCGCCACGTGCGGGCGCTGGTGCTTGAGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTCGAGGTTCCCTATGTCCGATACACCATCCGCTGACCCGTCTGCTCCTCT
AGGCTGGCCCCTTGTCCACCCCTCTCCACACCCCTTCCAGCCCAGGGTTCCCATTTGGCTTCTGGCAGTGGCCCA
ACTAGCCAAGTCTGGTGTTCCCTCATCATCCCCCTACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTTTGAA
ACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAAAA

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FIGURE 6168

MSSSPLSKKRRVSGPDPKPGSNCSPAQSVLSEVPSVPTNGMAKNGSEADIDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIILGGVKAVTLHDQGTAQWADLSSQFYLREEDIGKNRAEVSQPRLAELNSYVPVTAYTGP
LVEDFLSGFQVVVLTNTPLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVT
KDNPGVVTCLDEARHGFESGDFVSFSEVQGMVELNGNQPMEIKVLGPYTFSICDTSNFSDYIRGGIVSQVKVPKK
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVMKACSGKFMPIMQWLYFDALECLPQDKEVLTEDKCLQRQNR
YDGQVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMIGLGCGEGGEIIVTDMDTIEKSNLNRQFLFRPWDVT
KLKSDTAAAAVRQMNPHIRVTSHQNRVGPDTERIYDDDFFQNLDGVANALDNVDARMYMDRRCVYYRKPLLESGT
LGTKGNVQVVIPFLTESYSSSQDPPEKSIPICTLKNFPNAIEHTLQWARDEFEGLFKQPAENVNQYLTDPKFVER
TLRLAGTQPLEVLEAVQRSLVLQRPQTWADCVTWACHHWHTQYSNNIRQLLHNFPPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSPDKLPGFKMYPIDFEKDDDSNFHMDFIVAASNLRAENYDIPSADRHKSKLIAGKIIPAIATTTAA
VVGLVCLELYKVVQGHRQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRALVLELCCNDESGEDVEV
PYVRYTIR

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FIGURE 6169

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CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCCAACATCCAGAAGGTCGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTTGGGCAAATCTCACACTGTTCAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCGCAAGAAAGATGGCACTTGGCCCAGCGCACAGCTGCATGTCATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAACTCGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCCTCAACAACTGCTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCTATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCATTCCTCCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCCACTGCCTATCAGCCACAAGAGGGTCTTGGAGGTCTTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACCGGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGCATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACTCCTACTACGGCCTGATGCTTTTTGGACACCCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCCTGATGTACCGGCTCTCACGCTACGTGACCAAACCCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGCAGCC
TCCGAGACCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCCGTTCCTCCTGGACAATT
GCCTTGGCACATCTCAGTGGCCCCCAAGGCGACGACGCAAGCAGCTGTTCACCCTGCAGACGGTGAACTCCAATG
GGACCAGCGACCGCACAACCTCCCCTGAAGAAGTCCATGCCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTCGGGTACGTGATGAAGA
AGGCTCCCGTGCGGCTGCAGGAGTGCATTGAGCTCTTCACCACTGTGGAGACCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCCTGCAAGCAGCACCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCTCGTGGAGTTTCCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTCATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTATGGGGGCATGCGTGATGGACACTACACAACATTTGCCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCCTGCTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTCATGGATGTTAATTGAGAGCCCTGGGTCCTGCCACAGAAAAAAAAAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCGTGTTAGGTGCCCCGCCAGGCAT
TGCAGGCTTAGTCGTGGCTACTGTTCTCCTGTGCCGCTGCATCGCTCTCTCCCGGGAAAGAACAGGTCGTGTCTC
CTCCTAGCAGTGCGCGCCCCGCCTGTGTTGCCCTTCCAGCAGTGACCCTCCCTTCTAGTCTTTATTTATGGTCG
TGCCCTTCCCTCTCCTCAGCCCAGAGTGTTCTGCGTGGGTGGTGATGGGGGTTCACCTGAACACAGAGTGTATTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC
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FIGURE 6170

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TGACCCAATAAGGGTGGAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGCGGCTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCTGAGCAGAGAAGGAACTGGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTCGTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCTTGTCTGCCTTCTTGTAGGAGCCCCATGGCA
CCTGCCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCCTGGATGGCGAGGA
GCTCATTGTCGAGGTCCTTGAAGATGTCCCGCTGACCATGCACAATTTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCCTCCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCCT
ACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGGGAG
CCCCAGCCCAGCCAGCGTGTCCTCGGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGCGAGCGGAA
GTCCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCCAGCCCACAGCTGAGCAGGCCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTTGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCGGCAGACTGCCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGCCCAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCCGTGGCTATCTGTCCCCGGACCTCAG
CAAAAATCTCCAGCAACTGCCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCTCTTCCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCCTCCTTGCACCGCACCCAGGCCGATGAGTTGCCTGCCTGCCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGCCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCCATTCCCCACCCTGGGAGATGAGGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTTGGTTTCCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCCTGATGTGCCTTCCACTGGATTTTGGGGTTCCCAGCACCCCATGTGGATTTTGG
GGGGTCCCTTTTGTGTCTCCCCCGCCATTCAAGGACTCCTCTCTTTCTTCACCAAGAAGCACAGAATTCTGCTGG
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FIGURE 6171

MEPPRGPPANGAEPSRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFFSLAFCDFCLKFLFHGFRCQTCGYKFHQHCSSKVPTVCVDMSTN
RQQPSRFYHSVQDLSGGSRQHEAPSNRPLNELLTPQGPSPRTQHCDPEHFPFPAPANAPLQRIRSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGGSDGTPRGSPSPASVSSGRKSPHSKSPAEQRERKSLADDKKKVKNLGYR
DSGYYWEVPPSEVQLLKRIGTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNILLFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYLHAKNIIHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGSVLWMAAEVIRMQDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMV
GRGYLSPDLSKISSNCPKAMRRLLSDCLKFQREERPLFPQILATIELLQRSLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

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FIGURE 6172

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCCAGCAGGGCCTGCACCTGTGTCCCACCCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AAACTGCAGGATGGACTCTTGCACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTTCCCTGTTTATCCATCCCCTGC
AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

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FIGURE 6173

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ACATTGGGCTCCTCCTCCTCGGGCCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCCG
CCCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCCTACCCTGAGGTCGCAGGGTGCTCCACTGAGG
ACTGCCCGCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCCTGCTGCTATACATGCCGCCC
CAGGGGACACTGTCTCTGGAAAGCCAGGCACACCCAAGGGTGCAGGAATGGCAGGCCCAGGCGGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTCACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCCTCGGCCTGCTGTGGTGCTCCCCAGTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCCTCGGGGAGCAGGA
GCACCAGTCCAAGCCCCTTGGAGGCCTGTCTGGAGGCTGAAGAGGCCGGCTTGCCTCTGCAGGTCATCCTGACCC
CGCCCGAGGCCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTTGCCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTTATGGACACCGCAGGGCAGGCGG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCCAGCCGCAGAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGCTAGGTGGGCCGGGACCCGAACGGACCCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGGCGCTGACCCCATCCCTGCTTCCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGC
CTCCTAGCATTCACTTCTGGAGCACCCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCCGTGGTGCTCTCCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACTCTCATTATCTCCTCCACAGAAAACACACAGCTTCCACAACTTCTCTGTTT
TCTGTCAGTCCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTTTTGTTTTATTATTCCTGGCCATACT
CAGGGGTCCAGGAAGAATTTGTACCATTTAATGGGTTGGGAGTCTTGGCCAAGGAAGAATCACACCCTTGGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTTGGCCAGGGAGGAATGT
CCCTTTTGTTCTTCCCCCTGAGAAGCCATTCCTTTGTCTGCCAACCTCCCTGGGGTCCTGCCTGTTTCCTCCCAA
TGGAGGGTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCGCTGCCATTTTGATAGTATAATCTATTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCATCTCTTCCT
ATATTTGGTGGGGTGGGTGGGAAGGAAGGGATTTGGGGGGGAATCTTCCTGCCGCCTCCCCCACTCCAAGTGTTT
ATTTTTGATACCAAACATGAATTTTCAGTTCCCTCCCTCCCAGCCCCCCAATTTCCTGCGGGCGGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGGACATAAAGCCTGTCCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCCAGCCCAGGCCTTGGGACCTGGGGGTTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTTTTACTTCCCCAAAATGGACCTTTTTTTTTTCTAA
AGAGTCCCAGAGAATGGGGAATTGTTCCTGTAAATATATATTTTTCAAAGTGA
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FIGURE 6174

CGGAAGCCGCGGTTCCTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATC<u>ATG</u>GCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGCAGGTGGATTTGGGCTGTAACTTCTTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTTCCTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCCAGAGAAGCCTCACC
AT<u>**TGA**</u>CTTCTTCCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

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FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQRDLRKVLDHRDKVYEQLAKYLQLRNVIERLQEAKHSELYMQVDLGC
NFFVDTVVPDTSRIYVALGYGFFLELTLAEALKFIDRKSSLLTELSNSLTKDSMNIKAHIHMLLEGLRELQGLQN
FPEKPHH

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FIGURE 6176

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GCCTGGAATAGCCTGGCTACTACCCCTGCACCTGTTCCCCTGCTGTCCCCAGGCCTCTCTGCCTGAATCTGCCTC
TCTCTGCCTCTTTTCTCCTGTCCCTCCAGGAGTCTCTCTGCCTCAACCACTCTCTCTGCCCCTTCATCTCTCTGA
GCTGGTGTGTCTGGTCCTACCCTCTGTTTGGGGAGCTGTCTGGCTCTGTCCCCCACCTCTTGGCCAGCCTGTGTC
TCCTGTCTATGACTGAGCCCAATTGCCTGTTGCCTTTCTGCAGGTGTTTCCACGAGCCTATCCCTACCCACCTGT
TTGTTTCTGAGTCTGCCTGTGTGTCCCTTTCTCCCTGTCTCTGCCTGTCTTCCAAGCTCCCCTAGCATCCCCTCC
TCCCGCCCATCTGTCTTTCTGTCCCTTCTGTGGTCTGTCTGTTCCTGTGCTGTTTCTCATGCCTGCTTTCTTTGT
AACTTCAGTTCTCCTACTCTCTCTCTGTCTCCTCTCTGCACCTTTTTCTGCCATCCATCCCATCCTGCTGTCCGT
CTGCTCTGTGAGTCCATCCCCTCTGTCTGCCTGTCACTCTCTAGCTGTGGGTCTACACCCTCAATCTTTCAGG
CCATTTCCCCCACCATCAACACACAAACAAACCGCTGTCTCCCTCCAAGTGGGTCCAGATAGGGGGCGCCCCTTC
TCCACCTCTTCCCCCGCCCAGGGCCAGAAGGAGGGAAACGAAATTAAAATTAACATTTCTTCTCAGGAAAAAAAA
AAAAGTACCGCTCCAGAGCAGGAGCCTAGGCAGCCGAGAGGGTGCCCGAACCTGAGTCTGAGTTGCGGCCACTTC
AGGAGCTGAGAGGAGCAGGATGGAACTGCAGGATCCAAAGATGAATGGAGCCCTCCCTTCGGATGCTGTGGGCTA
CAGGCAAGAACGTGAGGGCTTCCTGCCCAGTCGTGGTCCTGCTCCTGGGAGCAAGCCGGTCCAGTTCATGGATTT
CGAGGGGAAGACATCGTTTGGAATGTCAGTGTTCAACCTCAGCAACGCCATCATGGGCAGCGGCATCCTGGGGCT
GGCCTATGCCATGGCCCACACGGGGGTCATCTTCTTCCTGGCCCTGCTGCTGTGCATTGCGCTTCTGTCGTCCTA
CTCCATCCACCTCCTGCTGACCTGTGCTGGTATTGCAGGCATCCGAGCCTATGAGCAGCTGGGACAGAGGGCATT
CGGGCCTGCGGGGAAGGTAGTGGTGGCCACAGTCATCTGTCTGCACAATGTTGGGGCCATGTCCAGTTACCTGTT
CATCATCAAATCTGAGCTCCCCCTGGTTATCGGCACCTTCCTGTACATGGACCCCGAGGGGGGACTGGTTCTTGAA
GGGAAACCTCCTCATCATCATCGTCAGTGTGTTAATCATCCTGCCCCCTCGCCCTCATGAAACACTTGGGCTACCT
GGGGTACACCAGTGGTCTCTCTCTGACCTGCATGCTGTTTTTCCTTGTTTCGGTCATCTACAAGAAGTTCCAACT
TGGCTGTGCTATAGGCCACAATGAAACAGCAATGGAGAGTGAAGCTCTCGTGGGACTCCCCAGCCAAGGACTCAA
CAGCAGCTGTGAGGCCCAGATGTTCACAGTTGACTCACAGATGTCCTACACAGTGCCCATTATGGCTTTTGCTTT
TGTCTGCCACCCTGAGGTGCTGCCCATCTATACGGAGCTCTGCCGGCCCTCCAAGCGCAGGATGCAGGCCGTGGC
CAACGTGTCCATTGGGGCCATGTTCTGCATGTATGGGCTCACAGCAACCTTTGGATACCTCACCTTCTACAGCAG
TGTGAAGGCGGAGATGCTGCACATGTACAGCCAGAAGGACCCGCTCATCCTCTGTGTGCGCCTGGCCGTGCTGCT
CGCGGTGACCCTCACTGTGCCAGTCGTGCTGTTCCCTATCCGCCGGGCCCTGCAGCAGCTGCTTTTCCCAGGCAA
GGCCTTCAGCTGGCCACGACATGTGGCCATAGCTCTGATCCTGCTTGTTTTGGTCAATGTCCTTGTCATCTGTGT
GCCAACCATCCGGGATATCTTTGGAGTTATCGGGTCCACCTCAGCCCCCAGCCTCATCTTCATCCTCCCCAGCAT
CTTCTACCTCCGCATTGTACCCTCTGAGGTGGAGCCTTTCTTATCCTGGCCCAAGATCCAGGCCCTGTGCTTTGG
AGTCCTGGGAGTCCTCTTCATGGCCGTCAGTCTAGGCTTTATGTTTGCCAACTGGGCCACAGGCCAGAGCCGCAT
GTCTGGACACTGATCAGGCCCTGCTGGCCCAGGTCCCTGTGCGCATGCACATGGAGGGGTCAGGGCCGCTCCCTA
GGGTCCCTCCTGCCCAACATGTGGAGGTGGCTGGTTCCCATGAACGTGGTTGTCAGAGGCGGGGGACAGCAGAGG
CTGCAGACTGGCCCACTTCCCTCCTCCCCAGGGATGCCAAGCTTGGATCATGGCCCTAATCCCAACCCCAACCCC
ATGGGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGCCAGGTCCTG
GTGGAGCCTTTGCCCAGCCCAGTCCTCTCTGCCTCCTCCTGGCTGAAGCTGTTTGTCAGGATTACCCTCGGGCTA
AAGAGGAAAAATAAAGATGTTGAGCTACC
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FIGURE 6177

CCTGTTTTTTGTGCTCCTCCGAGCTCGCTGTTCGTCCGGGTTTTTTACGTTTTAATTTCCAGGACTTGAACTGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCATTTCAAGGAGTATTAACTGAAAAGTTAGGACCCACGCCTCCAAATTCTTTTTCTTCCTAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCTCCTATCTGCAGAGGGACCTTGTCCCCATC
TGCGGCTTCCTTCATTCTTTTTGTTTTTCCCTCTGTGTCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGCAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTTCTAGGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCCTGGGA
GGCGACGACTGGTCCTGCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCTTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCCTGGCCCGGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCATTCAGGTCATTTGTGTGGGATTCTATAGCTCCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATTCTGGAACATGGCACCCAGAACCTGGTGCCCAGCAGGAATTTTTGGCCTCTTT
TGCCCACTTACCCTTGCCTGCTCTTCCCTCACCATTGCCCTGACTGACTGCCAACCCATCATCCTTGTGTCTCCC
ACACTTAGTCTCTGGATGGTCGTCAGATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACCAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAACCAGGGTGGTT
ATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGAAATGAGACATGCACATAATATAGGTGAG
ACTTGGATATCGGCATTGAGTGAACCTGTTTGTCACACTCTGTCATGACCCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACCTCACCCAGCCAACCTACCAAACATTCCTAGCTAGGCCTTCCTTGCTCTCA
GGTGCATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTTGTGTGG
GATGGAGGAAATGAAGGTGTGTCCCTGTTGTCCAACCCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTTACTTCATGACATCACAATTCTCCCCCTCTTGCTGTTCCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATAT
CAACCTTTTGTTTTTAAATTGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCCATCTTTTTTTTTAAATT
TTTTCTGCCTATTTAAAGACAAATTATGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGT
TTGAGCTCTTAGGTTTATTGGAGCTAGCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTTTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCCTGTAATCCCAGTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTTCTAATTCAGATCATCAAACTGATTATATAGAAGAGTT
GGCTTTAAAATGTTTGCAAATGTCTTTTTTTTTTTAATACTGGAAGAAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGTCTTTCACAGAGCTTATTAAAAAGATGAAACCTG

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FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVVRSVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLEGMDMDMDVPETIMAETRVVMTATQEEITETIMTTEMRHAHNIGETWISALSEPV
CHTLS

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FIGURE 6179

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TCTTGCCTGGAGCCTGAGAAAGGGAGGAGAGACAGAAGGAACCGGCGACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGGAGGTGGTCCCCGATCCCGGGCTATGCTCTTGGATCTGAGAAGGGAAGGCG
GAGGGCGGCGGGGACAAGATGGGTGGAGAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTCACCCGGGCGCTGCCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCCGGGTGGGAGTTCGTGACATCTCCGGCGCGGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAGGGACGGAACTAGATCCCTTCGCTCGGGACGCTCACATTCCAGGCCCTTGTCCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAATGGCCGCGGTGTGGCAGCAAGTCTTAGCAGTGGACGCGAG
GTACAACGCGTACCGCACACCAACGTTTCCACAGTTTCGGACGCAGTATATCCGCCGGCGCAGCCAGCTGCTGCG
GGAGAATGCCAAGGCTGGGCACCCCCCAGCGCTGCGTCGGCAGTACCTGAGGCTTCGGGGGCAGCTGCTGGGCCA
GCGCTACGGGCCCCTCTCCGAGCCAGGCAGTGCTCGTGCCTATAGCAACAGCATCGTCCGCAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCCCGTGGGCACCGTCGTTCTGTCAGCAG
AGGCTCCTACCAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAACTATGCCTTTGCGGGCATGTA
TCATGTTTTTGACCAGCACGTGGATGAGGCAGTCCCAAGGGTGCGCTTCGCCAATGATGACCGACACCGCCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCCTGCCCCACCCACAGTGCTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCCTGGTCCCTCTCCAATGACATCCTCGTGTCCACCTCACTGGATGC
CACCATGCGCATCTGGGCCTCTGAGGATGGTCGCTGCATCCGAGAGATCCCTGACCCCGATAGCGCTGAACTGCT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAACGCCAAGCACAACGTGCATGTCATGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGGCTCCAGCAAGCTGACAGGCCGTGTCCTTGCTCTGTCCTTTGATGC
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCCTCTTTGATATGGCCACAGGGAA
GCTGACCAAAGCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGGTCCTGGGTCAG
CCGCGAGGCCCGGGATCCCTCACTGCTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCCTGCAGCTGAAGAGAAGCTTCCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCCTTCCGCCAGGGGGCCTGCGTGGTGACGGGCAGTGAGGACATGTGCGTGCACTTCTTTGATGTGGA
GCGGGCGGCCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGCACCTGTGCTTGATGTCAGCTTCAACTGCGA
CGAGAGCCTACTGGCCTCCAGTGACGCCAGCGGCATGGTCATCGTCTGGAGGCGGGAGCAGAAGTAGGGTCCTGT
CGGCCCTGCTGCTGTCCTCCATCCCACCCCTCTTACTCCAGCCTCGTGTTGTAAATAAAGTTTCGGTGGTCATGC
TGAGGGCCGGCTCCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAAA
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FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSQLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDRMEDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTSLSENYAFAGMYHVFDQHVDEAVPRVRFANDDRHRLACCSLDGSISLCQLVPAPPTVLRVLRGHTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCCTFQPVNNNLTVVGNAKHNVHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTKAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSFNCDESLLASSDASGMVIVWRREQK

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FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTCGGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTCCACCCAGCTACTGGTTCATTTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGGTTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCT**ATG**CCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTGTTCGACCCTTCCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCAACTCCGTGGTTACCAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAAACTAGACAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGAGCGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCTCT
TCCAGCAGCGGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
AT**TGA**AGCTTCGGCCTCCCTGGCCCTGGGTTAAAATAAAAGCTTTCTGGTGATCCTGCCCACC

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FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSCGLPYYWNADTDLVSW
LSPHDPNSVVTKSAKKLRSSNADAEEKLDRSHDKSDRGHDKSDRSHEKLDRGHDKSDRGHDKSDRDRERGYDKVD
RERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPMDPSSYSDAPRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRPYPSPGAVLRANAEASRTKQQD

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FIGURE 6183

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TTGATGTTTTCCAGTCATTCCGGCTGACAGCGTTCAAGTTGGAATCCTGGAGGGGAGGTGTTTTTCCTGTCGTAC
GTGGGACAGGCCACGCTGTCCGTCCGCAGTACCGACGCCTGCAGGTCAGAGCTTCGGGGAGAAAAGTGAAGAGCA
AGACGGAACTGACGGGGAGAAAGGCTGGGAACCAGGGTGTCGACTTTGACTGAAATTTGAGACGGAGGGCACCGG
AGGGCGAGCACTCGCCTGTGATTGGCCCGTGGGCGTCGTCGAGGTCCCACGCAGCTGCTCAATTGGTTGGTGTTG
CAATTGTTGTGGCGGCGGCGGCGGCGATTTTGCCCACGTACTTCCGAGTAAGGGGCGGGGCTGTGCCCTGGCGCG
CGTGCGCAGCGCCCCGGGGCCCCACCCGGTAGTGCAAGAACCTGCGAGGGGGCGGAGCGAAGAGGTGCTTGTTTT
GGTTCTGTTTCCTTTGAAGCAGAAGGCCGGAACAAGCGTAGCAATAAACTTGCTGGACTTGGAGAGAAGGCTAAG
ACAAACTCGCCGCACTGCCTTCATCTTGGACTTTACATCCGGGTTCTCCTCTCGGCGTGACCCGCGCGCCGCCAC
CGCCGCCGCCGCCGCCGCCGCCTCCGCCGCCGAGGGTTCTCGAACCGGTGCCGCGATCCCTTTATCCGGGTC
TCGCCGTTCCCGTCGTGCCTCGCGCACTACACTAGCCCCCTCATCCGGGTTCTCTCCCGGCGTGCCCCGCGCCGG
GTTTGTTGGGGGGTACTCGGCAGTGCAGCCATGACTATACTCCCCAAAAAGAAGCCGCCGCCTCCCGACGCCGAC
CCCGCCAACGAGCCGCCGCCGCCCGGGCCGATGCCCCCGGCGCCGCGGCGCGGCGGAGGTGTGGGCGTGGGCGGC
GGCGGCACGGGCGTGGGCGGCGGCGATCGCGACCGTGACTCCGGCGTCGTGGGGGCCCGTCCGCGAGCTTCGCCA
CCGCCTCAAGGCCCGCTACCAGGACCGCCGGGCGCTCTTCATCGCTGGGCGCTGGCCGTGCCGCCTGGTGCAGTG
GCGGGTCCCCGGCCACAACAGGCTTCTCCACCTCCTTGCGGGGGCCCAGGTGGTCCCGGCGGCGGTCCCGGCGAC
GCGCTGGGCGCAGCGGCGGCGGGTGTGGGTGCCGCGGGCGTGGTGGTGGGTGTGGGTGGTGCCGTAGGCGTGGGC
GGCTGCTGCTCCGGGCCTGGGCACAGCAAGCGGCGACGTCAAGCTCCCGGGGTTGGCGCGGTTGGCGGGGGCAGT
CCCGAGCGTGAGGAGGTCGGCGCAGGCTACAACAGTGAGGACGAGTATGAGGCGGCTGCAGCACGCATCGAGGCT
ATGGACCCTGCCACTGTCGAGCAGCAGGAGCATTGGTTTGAAAAGGCCCTACGAGACAAGAAGGGCTTCATCATC
AAGCAGATGAAGGAGGATGGCGCCTGTCTCTTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCAT
GAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAACTATGTCACAGAGGAC
TTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCCATGGCAGAG
ATGTACAACCGTCCTGTGGAGGTGTACCAGTACAGCACAGAACCCATCAACACATTCCATGGGATACATCAAAAC
GAGGACGAACCCATTCGTGTTAGCTACCATCGGAATATCCACTATAATTCAGTGGTGAATCCTAACAAGGCCACC
ATTGGTGTGGGGCTGGGCCTGCCATCATTCAAACCAGGGTTTGCAGAGCAGTCTCTGATGAAGAATGCCATAAAA
ACATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGAAACGGGCCACAGACTGGGAGGCCACAAAT
GAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCAGTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAG
GTCCGAGGCCCCAGCCAGCCCCGGAAAGCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTG
GAGGAGTGGACTAGCCGGTCCCCGCGGCAGCGGAGTTCAGCCTCGTCACCTGAGCACCCTGAGCTGCATGCTGAA
TTGGGCATGAAGCCCCCTTCCCCAGGCACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCGCCAGGTACA
AGCAGTCAGTTCTCGGCAGGGGCCGACCGGGCAACTTCCCCCCTTGTGTCCCTCTACCCTGCTTTGGAGTGCCGG
GCCCTCATTCAGCAGATGTCCCCCTCTGCCTTTGGTCTGAATGACTGGGAAGATAGACAAGAGGCACACAGAGAC
AGACCAACTGGCAGCCAGGCAGCCCCAGAGGAGAGAGACATTCAGACAGAGGAAAGTCTCCCTGCCCCTCATTCC
TTCCAAGATGAGAAAAACTTGCCGCCACCCCCCGACACTGATGCCAGGGAGGTGGGAGGAAGAAGTGGGAAATTT
CCCTTCCCAGTACCCCCAAGAACGTCTGAGCCTTCAATGTTGAATTTTTTCTTTATTAAAATTACTTTTATCTTA
TAAAATC
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FIGURE 6184

MTILPKKKPPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPPQGPLPGPPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGPGGGPGDALGAAAAGVGAAGVVVGVGGAVGVGGCCSGPGHSKRRRQAPGVGAVGGGSPEREEVGAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCMD
YLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVSY
HRNIHYNSVVNPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALECRALIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDTDAREVGGRSGKFPFPVPPRTSEPSMLNFFFIKITFIL

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FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTTGTCTACATGTGTGACCTGCACACCAAGATA
CCATTCATCAACTGGCCCTGGAGTGATTTCTTCCGAACCCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTCACCTTCCCCGTTCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTG**TAG**GCGAACTTCCCTCATTTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCCTCCTGGGTGTGGCCACCATATGTGTGTGCCTAGGTCCTCCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAAATATAAAAAAAAAAAAAAAA

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FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMCDLHTKI
PFINWPWSDFFRTLIAAILYLITSIVVLVERGNHSKIVAGVLGLIATCLFGYDAYVTFPVRQPRHTAAPTDPADG
PV

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FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCCTGGACCCAGCCCCCGACTCCGAC
ACGGCTCCACC**ATG**GAGGAGGCGGACCGAATCCTCATCCATTCGCTGCGCCAGGCCGGCACGGCAGTTCCTCCAG
ATGTGCAGACCTTGCGCGCCTTCACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCGGTTCCGCCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGGAGCTTGGCTATCAGAACTTCCTCTACCCCAGTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGGCTGAGCGTCTGCCCACCGATGCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTGCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTCGTGC
CAGAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGGACATCCCGCCTCCCACCCCAGGAGGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCAACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCCATACAAGCCCGGGACC
TGGGAGAACTGCTGCAGGCCTGGGGTGCTGGGGCCAAGACTGGTGCTCCTAAGGGCTCCCGCTTCACGCACTCAG
AGAAGTTCACCTTCCATCTGGAGCCCCAGGCCCAGGCCACTCAGGTGTCAGATGTGCCAGCCACCTCCCGGCGGC
CTGAACAGGTCACGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGCAGGCAGAGTCTGAGTGCCGGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCCAGCGGGTCATCCACTTGGCGGGTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAACTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTCAGAGCTGGAGACTCTGCCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTGCGGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTCGGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAACTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCTCAGCAACCTGGAGAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAG
GCCGGGTCCGGGAGGCC**TGA**GGAGCCGCCGGCAGAGGTCTCTCCCCAGCCTCAGGCAGGGATTTGGGGTGCTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCCTCCGCTGTCCAGTTCCTCCTGCTGCGGCCTTGGACCCAGACC
CCTGCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCATGTGGGGAGCTCGGCTGCAGTTTATTGGGGA
CGGTACTGTGGGTTGGGGGCCTTGGATCCCAAATAAATGAGTAGTTCCTCTGC

FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDLRDLLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVVPELSSRGEPREFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRQRLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRRPEQVTWAAQEQELESLREQLEGVNRSIEEVEADMKTLGVSFVQAESECRHSKLS
TAEREQALRLKSRAVELLPDGTANLAKLQLVVENSAQRVIHLAGQWEKHRVPLLAEYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLPRDVSRLAYTQRILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDELVFKDAKKDDAVRKAYKYLAALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKKTL
SNLEKIREDYRALRQENAGLLGRVREA

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FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCCTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCGAGAAGATCCCGCCCTCCCATTGAATCCCGCCCCCTCCCCCTGCAGCTGCTTCACCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCGCAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAGCTACAGTGTTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCGGTGC
GTTTGGTGGCTATGGCACCCTCACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAACTGGAAAACCCTGTGCTGGCCCAGACCCTGGTGGAGGCATTGCAGCT
GGATCCGGAAACACTTGCCAATGAGACGGCCGCCCGTGCTGCCAACGTAGCCCGCGCCGCCGCCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGCTGCCCGTACCGCCTTCAGTCAGGTGGTCGCTAGCCACCGGGTGCCACGCCGCAG
GTCTCAGGAGAGGATACCCAGCCCACGACCTACGCCGCCGAGGTCAGGGGCCCACCCCTGAGCACCCCTTGCTTC
TCCGCAGACCTCCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCCTGTGCTTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCCAGCACAGCCTTCCTGGGCCAGAATGATGTCTTCGATTTCACTCAGCCGGC
AGGTGTCAGTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGGCCCCAG
TGCTGCCTCTGGTGTGCCCCAGACGGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCAAGACCACCAAGTCGGG
GAAGGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGCTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXCCCTAGTCTGTGGGCAT
CCCTTTGCTTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGGTCCTGGCTGCGTCACCCTCGGCAGAG
CTTGACCAAGGGGCTACAGCTCTATGACCCCTGCTCAGCCCAGGTGCTTTCTCCAACTCTTCCCCCTCCTGCAGA
CATGCTGAAGGATGTCATCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCCTGCAGCCCCTC
AAGGCCCAGTCTCTGGAGCCATCTCTCACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCCTGCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTCATCGCCTCTGC
CAGCGTCAGCTCCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTTCTGCCCTCGCTCACGAGTTTGGATTCCTTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCCACGTAGAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACACGGGACTCCTCAGCTCGCCTCCTTGGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTCTTGGTGATCTC
GGCGTCATCTTCATGAATGGCAACCGTGCCAGCGAGGCTGTCCTCTGGGAGGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGCTCCTCCCCTCGGTGCTATCCTCTGGCCAAAGAGGTCCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCCTGGGCTCGGTAGAGAGCAAAGGATCTCACCAGGGCGGATGGG
GAAGCGGTGCTGGACGCTGCTCAGCCCTCTCTCTGCTCTGTGGCCCCAGATGACATCTAAGAGAGACAGTCAGAG
TCAGGGATTCCATCAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCCTCTGGCCTCTGCTGCATGCCCAGGCC
TCCACAGCGACTCCCCGGGGGCTGGGAAGTCATAGTCATGCTAGGGAGGGCCCCTGCCACCGTCTCTGCTCATGG
ATTCCTTTCCTTGCCCTCAGGGTGAGGCACCCATTCCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAGTAAGTATCACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTCACCTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCCTCTGAGCATGGCTCCCAGCTGGTAAGGGCCTCAGCCCAACTCTCC
TGATTTTCAGGCCAGGGGCCACCCTCTCCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCAA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCCTGGCTGACTGTTTCTTCCTCTCCAGTCGTTT
CCTCTGGTGGGCCTCTCCAGGGCTCCGCCGGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAAGCTGGGGTCATCGTGATGAGGGGCACAAACTT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCCTGCACCTCCGCATGGCTTCCGGGGAGGACCAATGG
CAAAAGGCTTTGAAGGCCTCACTTTTGCAGGCAGAAGTCCTGGGAGTGGGTTTGGGAATGAGTGAAGGGCTGGAG
GGGCAGGACAGTCCTCTTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGCCCCCTGGAACCCATCCGTTC
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

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FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTCATCGCCCAGAATCAGAACCGAGACCCCCGGGAATGGAAGGCTCATTTCTTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCCAGATGAGGGCCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCTGGGCCAGGATCCCCTTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGATTCCTTCTCGACACAGCACCCT
AGGCGGCTTCTTCCTGTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCCTGCTTTCATTTTGTG
CTTTTCCTTGTGTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAAATTAA

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FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAG<u>ATG</u>GCAGCAGCGTGTCGGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAACTGCGTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACTTAAAGAAGGGCCAGACCCATACCTTGGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCATTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCCATTCCTCAATGGAGAGGTCATCCGGCTGGATGGGGCCATTCGTATGCAGCCT<u>TGA</u>AGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCTTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTTGTAACTGCCTACCAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTTCTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQTHTLEDFQRVLDVNLMGTFNVIRLVAGEMGQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLPIARDLAPIGIRVMTIAPGLFGTPLLTSLPEKVCNFLASQVPFPS
RLGDPAEYAHLVQAIIENPFLNGEVIRLDGAIRMQP

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FIGURE 6192A

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GCCTGTCCTACTGCCGCCGGCGCCGCGGCCGTCATGGGGTTCCTGAAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTCAGAGGTTCACCGCCATCATTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAAACCAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTCAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCGTGTCATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAACTA
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACTTCCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCCAAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCGGCTGAACGCAAGGAAGCAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAACTGGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAACTGAAG
GAGAAGAAGAAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCCACAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTCAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTG
GCCCAGGAGCTGGAGAAATTCAATCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAGAAGCGGATTGAGAAACTGGAG
GAATACATCACCACTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCGCATC
GACCGCCAGGAGAGCAGCCGCCAGCAGCGAAAGGCAGAGATAATGGAAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCGCCTCATTGACCTATGCCAGCCCACACAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGACTCGGAGAAGACAGGCCGGGACTGTATTCAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCCTCTTGACTACCTGGAGGTGAAGCCTACAGATGAGAAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGTGATTCGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGCATTGCCTTTGGAGGCCACCAGCGCCACAAGACAGTG
GCACTGGATGGAACCCTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGG
CGCTGGGATGAGAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCAAAACGGAAAGAGGCAGAGCTGCGTCAGGTGCAGTCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTAC
TCCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTCAGAGCCGAGAGAGGGAAATGAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTGAAGAGTTTTGTCGGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTTGAGAATCAGAAG
ACTCGCTTGGGCATTCAGTTGGATTTTGAAAAGAACCAACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAAAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTCGTAAGAAACTCGGGGGCGCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACTTGCTACAGGCCTGTAAGATGCAGGACATTAAG
TTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAATTTCCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCCGCCCCCAACATGAAGGCCATGGAAAAGCTGGAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCCGAAAGCGAGCAAAGAAGGCCAAGCAGGCATTCGAACAGATCAAGAAG
GAGCGCTTTGACCGCTTCAATGCTTGTTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCCAGGCATTCCTGGGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCTATGGACAACTTGTCAGGCGGGGAGAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAAC
ACCAACATTGGCAAGGTGGCAAATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTC
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FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAG**TAG**CAGTATTTTTGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTCATCACACACACCCCCTTCCTCCCCCTCATCACCCATAATCGTGGGCCCCTTGGGCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACTCATTTGTGTAT
TCATTCATTTATGTATTCATCAGACACATACCGAACACCCTCTATTTGTCAGGCTCTGTGCTTGGAATACAGAGT
TGAATCAGACATGATCTCTACCCTCCTAGTAAGGAGATACAGTGGGTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTTCTGGTCC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCACTAGGTGCCGACCCCTCAGAATATAACCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCCAGCCTAACACCTGTGAGGTTCAT
TTTAGGAACTAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTCACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

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FIGURE 6193

MGFLKLIEIENFKSYKGRQIIGPFQRFTAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGKPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVQLHEYSEELEKLGILIKARNFLVFQGAVESIAMKNPKE
RTALFEEISRSGELAQEYDKRKKEMVKAEEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDKVEDELKEKKKELGKMMREQQQIEKEIKEKDSELNQKRPQYIK
AKENTSHKIKKLEAAKKSLQNAQKHYKKRKGDMDELEKEMLSVEKARQEFEERMEEESQSQGRDLTLEENQVKKY
HRLKEEASKRAATLAQELEKFNRDQKADQDRLDLEERKKVETEAKIKQKLREIEENQKRIEKLEEYITTSKQSLE
EQKKLEGELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRLIDLCQP
TQKKYQIAVTKVLGKNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKGAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHGLQMRLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLKKEEQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSDRHNLLQACKMQDIKLPLSKGTMDDISQEEGSSQGEDSVSGSQRISSIYAR
EALIEIDYGDLCEDLKDAQAEEEIKQEMNTLQQKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAFLGPENPEEPYLDGINYNCVAPGKRFRPM
DNLSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGDCVISKVLTFDLTKYPDANPNPNEQ

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FIGURE 6194

CCGGGACGTCACGTGGACTGGGGCCGGATA**ATG**GCGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCTGGCCGGCCTTGCAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGCAGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCACTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTCACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAA**TGA**GTGGGGATGATTGGAAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCCTCTCCCCTGTTCCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTTCCAGCATATTCCCCTGGGCCTTTAGT
TAACATCCGAGTGACGAAGCCGGGTTCCCCAGTACAGTGTCTTTTGGGTGCGGTCATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGGTGGACAGTGGGCAGGTGGATTTGGGGAGGAGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTCAGGAATGGTGAGATGAACATGCAAGTGGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCCACCCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCCAGCCTCCAGTCCTGGGTTCCC
TCAGGAATTCGAAGACCTTGGCTAGGTGGTGAGCTTGGAAGAGCTGGGCTTTGTTTTCTGTCTCCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTAGCCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGGG
AGCAGTTTCTGGGCCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAGCCTGAAATAAACTGTATTTTCT

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FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDTVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMASCITQRKCKVTATALKTARETDEDEDDVDSVEEMEVTA
TNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

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FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGCGAGAGTTTCTGCTCGCTCAACCGAGTTGTCGTGTTGCCCTCGCTTCTC
AGATCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGCTGAATTAAAGAAGAAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCCGGGAGCAAGAAAG
ACAAAAACGCAGGACCATTGAGAGCTACTGTCAGGATGTCCTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAAATATGTTTCCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGGAATACTCTGATGTGATTCTGGAAGTCCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCCTGCGAGCACAAGGCAACAAGAAGCTGGTCCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCGTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCTCTGAGTCACTGCTGAAAAGCAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTTCTGGGGAACTATTGCCGCCTTGGTGAAGTGCGCACCCACATTCG
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCCTGGAATTACCAAATTCATGCAGGAGGTCTACCTGGACAAGTTCATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCCTGCGTAACTGCGTCCACGTGCAGAAGCTGGC
AGACCCTGTGACCCCAGTGGAGACCATCCTGCAGCGCTGCAACCTGGAGGAGATTTCCAACTATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCCACCGTTTGGGGAAGAAGAAGAAGGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCACTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAATAGCAGATGCCATTGAAAATAAAACCAC
CGTGTATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGTCTGCTCAGTGGACCGCCGCTCAGTGCTGCAGAGGAT
CATGGAGACGGACCCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAAATAAGAAGAAGATGCAGAAACG
TGCAGATAAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGGCACCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCCAGACGGCACCATTGCACT
CTAGCCTGGGCAACAACACGAAACTCCGTCCC

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FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGAC**ATG**TCT
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCACTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGCAGGCTGTGACAATGCCTGCCACTGAGACCAAAAAGGTCAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGCAGCTGCCCAGTCTCAGGAGAATCAGGATACTCGGCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACCACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCCTCAATGGCCCGCAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCGC
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCACCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACACTGATGTGTACCCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGTACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTCATCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTCACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGTGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGT
ACCAGTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCTGTGGT
TTCTCCTACAAG**TGA**GATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTTCAAGCCAGGGTGCATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

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FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMMQTLLTVTQNVEVPETPKASKALEVSEDVKVSKASGVSKATEVSKTPEA
REAPATQASSTTQLTDTQVLAAENKSLAADTKKQNADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQGRANDLVKYLLAKDQTKIPI
KRSDMLKDIIKEYTDVYPEIIERAGYSLEKVFGIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDSPKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRKLGLRPGIHHSLFGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMKVLKFACKVQKKDPKEWAAQYREAMEADLKAAAEAAAEAKARAEIRARMGIGLGSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGGAGASTSGSSGA
CGFSYK

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FIGURE 6199

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TGGCCAACTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTGCGCGTGGTGAGCTGGAACATCAATGGGATTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCCAGTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGCCACCCAGAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTACTGCCCCCATGCGGACCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCCACCGCCCCATTGACCACTGGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCTTCACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCG
GCTTGACTATGTGCTGGGGGACAGGACCCTGGTCATAGACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGTCCTCTGTGCCTGCAAAACAGTGCCCACCTCTGTG
CACCCGCTTCCTCCCTGAGTTTGCAGGCACCCAGCTCAAGATCCTTCGCTTCCTAGTTCCTCTCGAACAAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCAAGTGCG
CTCAACCAGGCCTCAGCCCAGTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTC
CCCTAGCTGTCCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTGCGCACACCCCTCTGTGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACTTGGGCCGCCGCTTCTACATGTGTGCCAGGCCCCGGGG
TCCTCCCACTGACCCCTCCTCCCGGTGCAACTTCTTCCTCTGGAGCAGGCCCAGCTGAACCAATGGAGGCCTGGG
GACATCTGGCATGGTCACCCCTGCACATGATCTGAGGCCAGCTCCCCTTCCCTGAGCTGCCTCCTGCTTCTCCCT
CAAAGTCTCCTACCCTTCTCTTCCTCTTTTAAGCCCTCTCTTCCTCGCTTTCCTTCCTACCTAGCTCCTTGTTGG
TGAGCTTCTTGTGCCTTAATCCTGTGACCCAGCCCCTTACACCACTTTCCACCTTCCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGTATTTGTGCATAAATAA
AGTCTGTGTATTTGTTTCAGGGTTGCAAAAAAAAAAAAAAA
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FIGURE 6200

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVIILGDLNTAHRPIDHWDAVNLECFEEDPGRKWM
DSLLSNLGCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLPEVM
GSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNNQTRVQTCQNKAQVR
STRPQPSQVGSSRGQKNLKSYFQPSPSCPQASPDIELPSLPLMSALMTPKTPEEKAVAKVVKGQAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

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FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCCGCTGCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCTCCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCCAAAAGAAGCAGAGAGGCCGACCTTCATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAACTTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCTTTCTGACAGGGTGGCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCCTAATAGGTAAGCATGTGGAATATACCAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTCACCAAGTG
GAAGCCAAACCCTCTGTGTATTTCATCAAGTTTGATGATGATTCCATATCTATGTCTACGATTTGGTGAAAAAG
TCCTAACTGTTAGGGTAAAATTTGGCACATGTGTGGAAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGC
CTTTCAGTGTATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCT
AAAAAATACAAACTTGTGTGTACATG

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FIGURE 6202

MKTPNAQEAEGQQTRAAAGRATGSANMTKKKVSQKKQRGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLLDDYKEGDLRIMPESSESPPTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

FIGURE 6203

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GGCAGTGGGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCCAGACAGCTCTACTGCACCACCCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCCAGCATTGCTTCCAGGCTCCTAGGGGAAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCCAGCAGGCATGAAGACCCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAGTCTCCCAAAAGAAGCAGAGAGGCCGACCTTC
ATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGATGGAAGGAAGGAGATGAGCCCATCACGCA
GTGGAAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAAATATGATGGAATTGACTG
TGTCTATGGACTGGAACTTCACAGAGATGAAAGGGTTTTGTCTCTTAAAATTCTTTCTGACAGGGTGGCATCATC
TCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGGAACACATGTTTGAGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTCACCAAGTGGAAACCAAACCCTCTGTGTATTTCATCAA
GTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAGTCCTAACTGTTAGGGTAAAATTTGGCACA
TGTGTGGAAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTCAGTGTACTGAAAGCTTATGGAATC
CCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAGCCCTTTGTCTTGTTGAAAAGTTCGGGTGTGTTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTCGGCTGTGAATAAAGTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGGTGACTGCTTAG
GAAGAGGTGGAAAAGGGCCAGAAAGGGAGGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAATAGAATAAACTGAGTAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTTGGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTATGCCCATAAGGCTTTTCCTGTTTCAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCCTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCCTATTCCTTCT
GCTGGAATGTTTGTTTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTTTCTCTCGAG
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FIGURE 6204

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GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTGATGGGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCTGTCACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAAACTCTCTGTCTCCAAGCCCACAGTGACAACTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTC
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACTTCCCAGAATCTGGGCAACAACTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTCCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGTCTGTTAAAAATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCTTCTGCATGGCCTTCTTCCCTGCTACCTCTCTTCCTGGATAGCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTTCTCTTTCTTCAGGGC
CAGACAGCTTTTAATTGAAATTGTTATTTCACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAA
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FIGURE 6205

MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGETSAGPGKSLPVFAIILIISLCCMVVFT
MAYIMLCRKTSQQEHVYEAARAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEFLATEGKSVC

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FIGURE 6206

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CAGTAGTGCTAGCAGCTTCGCGGTTCGGTCCTCGGACCCGGCAGCCACCACTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCCTCCGACTCACCGGAAAAAACAAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAAACCGTCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAGAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACC
ACCACCAAGAAGTGGGGGTCTTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTGTAG
AGAGCTCCACCTACACGAGGGCGCCCCCATCTTATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAAGGGGGTACCCTCCTCCACGTGATTCCTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAACTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAAACTATTCTATCATAACTACCCAA
GAACTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAAATTCCCTGTTAAGCTCCCCTCCATAATTTTTATGTTC
TTGTGAGGAAAAAAAGTAAAACATGTTTAATTTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTTGTAACTTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTC
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTC
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTTGGGATATGCTACTCATAAGATTTCAGGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTCACCCAGTAAACCCAAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTTCTGACATTTCCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAACTAAGAATACTAAATAAAATGTTTGGCCAAAACC
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FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCCTTTGCCGCCACC<u>ATG</u>CCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCAACACCACCGGGAAGCAGCTATTTGACCAGGTGGTGAAAACTATTGGCTTGAGGGAAGTTTGGTTC
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTCTCCACCTGGCTGAAACTCAATAAGAAGGTGACTGCCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTTACTGCCCGCCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCCTGGAACAGCACAAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCCTGGAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAACTCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCATCAAGCCCATTGACAAAAAAGCCCCGGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCATGGGGAACCATGAACTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGCTATGCTGGAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACC
CGTAGGGCTCTGGAACTTGAGCAGGAACGGAAGCGTGCCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCCAGCTGGAGATGGCCCGACAGAAGAAGGAGAGTGAGGCTGTGGAG
TGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCACTGAGGCAGAGAAGAATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATG<u>TAA</u>TGGGCACCCAGCCTCTAGGGACCCCTCCTCCCTTTTTCCTTGTCCCCA
CACTCCTACACCTAACTCACCTAACTCATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTCATGCCAAG
CATTTAATGTAGCCATGGGACCAAACCTAGCCCCTTAGCCCCCACCCACTTCCCTGGGCAAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTCTTCTCTGTTCCATTGAATCTGTATGGCTAGAATATCCTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACTGTTGTCCTATGGGAGTCAAGTGTGGAGTA
GGTTGGAAGCTAGCTCCCCTCCTCTCCCCTACCACTGTCTTCTTCAGGGTCCTGAGATTTACACGGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAATTTGCCCTCCC
ATCCCGTTTAGAGTTATTTAGGCTTTGTAACGATTGGGGGATAAAAAGATGTTCAGTCATTTTGTTTCTACCTC
CCAGATCGGATCTGTTGCAAACTCAGCCTCAATAAGCCTTGTCGTTGACTTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAATGGTGCCTTCAAGACCTTCACCAAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCTTACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCTCCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTCACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATA
GCTCCTGCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACAC
CAGCTGTTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTTCTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTTCTGCCTTCCTTGCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAAGCATATACTATATTACAAAATGACATTTTGC
CAAAATTATTAATATAAGAAGCTTTCAGTATTAGTGATGTCATCTGTCACTATAGGTCATACAATCCATTCTTAA
AGTACTTGTTATTTGTTTTTATTATTACTGTTTGTCTTCTCCCCAGGGTTCAGTCCTCAAGGGGCCATCCTGTCC
CACCATGCAGTGCCCCTAGCTTAGAGCCTCCCTCAATTCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTT

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FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAGGGGTTTTTTGTGTACTTTTTGGGTTTTTTAAAAATTGTTTTTGGAGGGGTTTATGCTCAATCC
ATGTTCTATTTCAGTGCCAATAAAATTTAGGAAGACTTC

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FIGURE 6208

MPKTISVRVTTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNKDQWEERIQVWHEEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDTI
EVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQQELEEQTRRALEL
EQERKRAQSEAEKLAKERQEAEEAKEALLQASRDQKKTQEQLALEMAELTARISQLEMARQKKESEAVEWQQKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

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FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTCAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTTCAGTATTAGTGATGTCAT

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FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGT**ATG**TCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCCAGGGGATGGATCTCGTGTGGAGTGCGTGGTACGGAAAGTGCGTTAAAGGGAAAGGGTCGTTGCCACTCT
CGGCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTCAGGCAACGAACTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAACTGGTGGCTTGGGCACTGATGAACTTA
GACTGCTCTATGGCATGGCATTGGTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCCATATAAATGACTGCCGCAGAGGCTGCTACTTTGTCCTGGATTGGCTCCAGAAGACCTATTGGTGCC
GCCAACTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTCAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAAGAGCTATATGAAAGAGCCCGAGAACTGCTGGTATCATACGAAGAGGAGCAGTTTACGGTGCTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAGGCGTGGAATAACCCGTCCCCACGTGTAGAATGTGTCCTGGCAGAGCTCA
AGGGCGTTACATGCGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTTG
AACAGTTGGCAGCTTTGCAGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCCTGGTGCCAAAGCCGTTCTCTCAGTTCTGGCAGCCCTGCTCA
GGGGCCTGCACTCCCAGAACTTCACGCAGGCCCTATTGGAGAGGATGCTCTCTGAACTGCCAGCCTTGGGGATCA
GCGGGATCCGGCCTACCTACATCCTCAGATGGACCGTTGAACTGATCGTGGCCAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGCAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAACTGCTCCGCCTCCCTTGACT
GGCCCCGGATGGTTGAGTCCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCCATTGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTTGCAGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCCTAGGCCGAATGCCAGGTCAGACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACCAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTCGGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAAACTGGCCTGCAGCTCTTC**TGA**TGGC
CATCCCTGGTGCAAGTGTTCATCCAGCCGTGCCAGGGCAACAGCCCACCCCCTAGTACAACTGATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTTGAATGTCTTTTGT
TTTTGTTTTGTTTTGAAAAATAATAAACAGGCAACTGT

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FIGURE 6211

MSWESGAGPGLGSQGMDLVWSAWYGKCVKGKGSLPLSAHGIVVAWLSRAEWDQVTVYLFCDDHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDW
IVDLRHELTHKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KPEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVSYEEEQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAELKGVTCENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLVP
KPFSQFWQPLLRGLHSQNFTQALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNCSASLDWPRMVESCLGSPCWASPQLLRIIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEEKEEKEVLPDQVEEEEENDDQEEEEEDEDDEDD
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGSAWQVSSEDVRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSSNFEGLLWSQGQLHGLKTGLQLF

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FIGURE 6212

<u>ATG</u>AACAGCCCGGACCTCCGTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGCCCGCCGGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAAATTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCCAGTTCCTGCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCCAGGCT
GTCGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTTCTTATGGCCACGGACCCCCAGTTCCCCTTACGCCTCACCCTTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGGCAGTGCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACCACAGAGATGAGAGGCCCGGCAAGCCAGAT<u>**TAG**</u>

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FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPRVVRELCSGLERPLRRSTRS
WKLTGELSCRGTEPRPPPARCSRRAGTRRRTRLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHLSYGHGPPVPLTPHPSGLQPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

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FIGURE 6214A

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CTGATCTCGGGGATTCGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCGGTTCAGTCGCT
TGCAGCAGCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGCTTGGACGACCT
GCTCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCTATTGGGCTGATGCTGTGACCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCCGGAAC**ATG**TG
GCTGCGGCTTGGCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCCACGGTTGGCAGGAGCCTGTGCCTCACCCTGTG
GTTCCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGCTAAG
GGGTGCCCGAGTACCACTGCCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTCCTGCCCCCTGAACCACCCCATCCTGGTCGGGCATCCGGAACGCCACACACTT
TCCCCCAGTGTGCCCCCAGAACATCCACACAGCTGTGCCCGAAGTCATGCTGCCGGTCTGGTTCACTGCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCAACGAAGACTGTCTCTACCTGAACGTCTATGTGCCGACGGAGGA
TGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTCATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTCATAGTCATCACCCTCAACTATCGGGTTGGAGTGCTAGGTTTCCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCCTTCTTCGGGGGAGACCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT
CACGTTGTCACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC.
TGTGAACTACCAACCAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGCTGGACACCGTGGA
TATGGTGGACTGTCTTCGGCAAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCCGCTACCACGT
GGCCTTTGGCCCTGTGATTGATGGTGATGTCATTCCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCCT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGGACCCTGAGGA
TGGTGTCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTGTATGGCTATCCTGAGGGTAA
GGACACCCTGCGAGAGACCATCAAGTTCATGTATACAGACTGGGCAGACCGTGACAACCCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACCAGTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGC
TCATGGGGATGAAGTACCCTATGTTTTTGGGGTTCCTATGGTAGGCCCCACTGACCTTTTCCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTCGTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTCATTCACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTCACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGGTGCCCCACCTATACAACCTGCATGACATGTTCCACTATCGTCCACCACCACCAAAGT
GCCGCCTCCGGATACCACCCACAGCTCCCACATCACCCGCAGGCCCAATGGCAAGACCTGGAGCACCAAGCGGCC
AGCCATCTCACCTGCCTACAGCAACGAGAATGCCCAGGGGTCCTGGAACGGGGACCAGGATGCAGGCCACTCCT
GGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTCACCATCGCCGTGGGGGCCTCCCTCCTGTTCCTTAA
CGTTCTGGCCTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCCTGCGGCAGCCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACTGGGCCCCACCCA
CCACGAGTGTGAGGCCGGTCCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCCTGACCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCCAACACCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGCAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTA**TAG**CTCCAACTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCCAGATCCAGGAACACATGCACACACA
CACACACACACGC AGACACACACACACACACATATATGTATACGCACGCACCCACACCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGCATGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCCTTTAAATGGGGACGCAGATGAGTCCTCGGTAAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCCTGAAAGCAACAGCTGGACACCCCCTTGGTGCTCGCCTTCGGCCT
CTCTTGGAACTGCACCACCGACCAACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCCTCCCCAGGAC
TTGGTCTTTTTTTCTGGGTCTTGTTTTGTTGATTTTTCTTTTTTAATTTTGGAACAAATGCTTTTCCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCCGAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCCAGGAAGGAAACAGATTTAAGCAAGACCATGGGGTGGAAGGAGAAAGGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCCAACTCTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTTGGTGAA
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FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTTCTTTACAGTCTTTTGTGTCTGTCATTTCTCTTTCAAAAAGGCGGTGTTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAAACACTAACGAAAAAAAAAA

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FIGURE 6215

MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQYLGVPYA
APPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLNVYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSHHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCNVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGE
FLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRDNPETR
RKTLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVPYVFGVPMVGPTDLFPCN
FSKNDVMLSAVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTTHSSHITRRPNGKTWSTKRPAISPAYSNENAQGSWNGDQDAGP
LLVENPRDYSTELSVTIAVGASLLFLNVLAFAALYYRKDKRRQEPLRQPSPQRGAGAPELGAAPEEELAALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

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FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGG**ATG**AACTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCATCTTCAT
CTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGCTGTGGTCCCTGCA
GCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTCATCAGCGTGGTGTTCCGGCTGTTGTTTGAGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCCTGGCTATGCCATGGTGCGGCTGGTCAAGTGCGACGTCTACCCCTGCCCCAACACAGTGGACTGCTT
CGTGTCCCGCCCCACCGAGAAAACCGTCTTCACCGTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAA
TGTGGCCGAGGTGGTGTACCTCATCATCCGGGCCTGTGCCCGCCGAGCCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGCAGCCCTGGCACCGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGC**TGA**TGCCACATACCAGGCAACCTCCCATCCCACCCCCGACCCTGCCCTGGGCGAGCCCCTCCTTC
TCCCCTGCCGGTGCACAGGCCTCTGCCTGCTGGGGATTACTCGATCAAAACCTTCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGGCCTTCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTGCCTGCACCCTTCCCTCTTCCCTCTCCCTCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAAACTAATCTTAACCCTGTGCTGTCAGATACCCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

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FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQQHIEKKMLRLEGHGDPLHLEEVKRHKVHISGTLWWTYVISVVFRLLFEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICIILNVAEVVYLIIRACARRAQRRS
NPPSRKGSGFGHRLSPEYKQNEINKLLSEQDGSLKDILRRSPGTGAGLAEKSDRCSAC

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FIGURE 6218

GTGTGAATGAGGCAGG**ATG**AACTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTCTGCC**TGA**AATGTTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCCAGGATGA
GCTGGCCTTGGTTTTTTACTGATTAAGAAAGGAACAGGGCAAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGCAGAGCCAGCCCCGGAGCCATTCCTCCCTGTTGCTTTTGTTGTTGTG
GTTCTTGTCTTTTTCATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTTCCTCTGATTTTGAA
AAGATTAAAAATGACAACTCCCTCTG

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FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQQHIEKKMPRPLSA

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FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTCACAGCCCCTGGGGGCCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTGTATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACTCCTGACCTCAGATAATCTGCCCGCCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTTGGAGGGAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTTAAAAATGCCAAAACTGGATAGTTTGG
TTGTTTCTGTTTTTGTTTTTCTTTTTTTCTTTTTCTTTTTGAGACAGAGTTTTGCTCTTGTCGCCCAGGCTGGAG
TGCAGTGGTGCAATCTTGGCTCCCTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCACTTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCCAC
TCCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACAATGGCTCTGTTACAGTGTTGCTCTCTTTTTCTCTTTAAGACCCCACCAACAACTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAAGG
ACCCTTTTTGGACTAGCCAGAATTCTACCCTGGAAAAGTGTTAGGGATTCCTTCCAATAGTTAGATCTACCCTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTTAATCAGTTCTGTGTGGTGCATTCCTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGATCCAGTTAGAGCCCATTAATCTTGATCATTCCGGTTTTTTTTTTTTTGTCCATCTTGTTTCAT
TTGCTTGCCCCGCCCCCGAGACGGAGTCTTACTCTGTCGCCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGGTTCAAGCTTGTCCAGGTTGATCTTGAACTCCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTTATCCTTACACTCCCC
CAGCCCCAGAGAAACTGCCACATACACCACAAAAACCAAACATCCCCCAATGACCTTAGCCCCATTGCTCCATTC
ACTCCCAGGTGAGAATTCAGGCAAACGTCCACAAAGGTCACAGGCAGCGTACATACGGTTCTGTTATACCCCATA
TATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTTAGTGTATCTTTAAAAAAAAAATC
TTGTGTTAACTTGCCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCCTTTTGTGTCTATGATGTTGCT
GTTCACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCATTTTTTTTTTCATTGGTGTACTGTGTTTGATTTGTCTC
ATATATTTGGAGTTTTTCTGAAAAATGGAGCAGTAATGCAGCATCAACCTATTAAAATACATTTTAAGCCTTTT

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FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQHHHQQQHHQQQQQQPPPPPIPANGQQASSQNEGLTIDLKNFRKPGEKTFTQRSR
LFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFPRPVTVE
PMDQLDDEEGLPEKLVIKNQQFHKEREQPPRFAQPGSFEYEYAMRWKALIEMEKQQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRRQEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQQEEMMRRQQEGFKGTFP
DAVYLPCARDVPDQS

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FIGURE 6222

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GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTAAGCGGAAGATGGAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAA
CGGGCCAGTATGGTGCATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTTGACTAT
GCAGCAGCTATAGGAGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTTATCTCAATGATGCTGTCCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTCAGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTTCCCAGGAACA
GGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAAATGTGCCCATTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTACTAAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACTCCAGTGGGAATTGGCAAG
TGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAAAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCTATAATGAAGACAGCGTGTTTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTACTTCCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCCTGGGGTGAAGAGGC
AGGCACCCCAGAGTCCTCAACTGGACCTAGGGGAAGAAGGAGATATCCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACACAAATGAAATTTTTAATCTTTGAAAATTATTTTTAAGCGAATTGGGGAGGGGAGTATTTTAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTTGTTTTAGTGTTATATATCTTTGGTTTTTTTAATAAAATCTTTGAAAACCTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA
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FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDSLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDAVLGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWTYLTGVILGKTLSSEIPDHEFFTAYGPDYVLEITPSCRPDRNEPHRIQQILNYIKGNLKH
VV

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FIGURE 6224

AAGACGGAGGTCCTCTTTCCTTGCCTAACGCAGCC**ATG**GCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTCCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGCATGCAGCGGTTCATTAAAATCGATGGCAAGGTCCGAACTGATATAACCTACCCTGCTGGATTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCGCACCATCCGCTACCCCGATCCCCTCATCAAGGTGAATGATACCATTCAGATTGATT
TGGAGACTGGCAAGATTACTGATTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGCACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCA̠GTGGG**T**
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAAAAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTKGIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

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FIGURE 6226

ATGGGTCCACGTCTTGCAGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCTCAAGAGCAAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACTGTTTAA

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FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAAA
ATAAATAAAAGACATCTGGGCTGT

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FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCCAGCACTTTCCAGAGCCTTCTCTCTCCTGTGCAAAATAGCAACTCTTAAGGAAAAACTCATT
GTACCAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTCATCCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGACTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTGAAAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAGTGTGGCTGATCTCATTGAATCCATGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

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FIGURE 6229

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ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCATGGTGGTGGC
GCTGCTCATCGTTTGCGACGTTCCCTCAGCCTCTGCCCAAAGAAAGAAGGAGATGGTGTTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTTCCGTCGCCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAACTGCATAGACAGTGTGTCGTTTGCAAGCA
AGCTGATGAAGAATTCCAGATCCTGGCAAACTCCTGGCGATACTCCAGTGCATTCACCAACAGGATATTTTTTGC
CATGGTGGATTTTGATGAAGGCTCTGATGTATTTCAGATGCTAAACATGAATTCAGCTCCAACTTTCATCAACTT
TCCTGCAAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCCAAATTATGCTGGTCCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAAACACACATTGTTCTTCTGTTTAATGGTGGAGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTTGTATTATTCTTCAGTTGGAT
GCTCTCTATTTTTAGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTCCCAGAGATAT
ATAGACACTGGAGTACTGGAAATTGAAAAACGAAAATCGTGTGTGTTTGAAAAGAAGAATGCAACTTGTATATTT
TGTATTACCTCTTTTTTTTCAAGTGATTTAAATAGTTAATCATTTAACCAAAGAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCCAGTGAACTTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAATTGTAAAACTACTACTTTGTTTTAGTTAGAACAAAGCTC
AAAACTACTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCCTGACCA
GGTGTTCCCACATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCTTTTGAGTAGAGAAATTATGTGTGTCATGTGGTCTTCTGAAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTCCTTGCATATTCCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTTAACTACCTTGTATTTAGAAAGATTTCAGATTCATTCCATCTCCTTAGTTTTCTTTTAAGGTGACCCA
TCTGTGATAAAAATATAGCTTAGTGCTAAAATCAGTGTAACTTATACATGGCCTAAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCCTGTAATCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGTTCGAGACCATCC
TGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAACTCAGGAGATGGAGGTTTCAGTGAGCCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAA
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FIGURE 6230

AAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTC
CAAAATGTCGCTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGA
CTTCAATGTTCCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATT
CTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGA
CAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTG
TGTAGGCCCAGAAGTGGAGAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTCATCCTGCTGGAGAACCTCCGCTT
TCATGTGGAGGAAGAAGGGAAGGGAAAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGC
TTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAG
CTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAAA
GGCCTTGGAGAGCCCAGAGCGACCCTTCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCAT
CAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAATGGCTTTTACCTTCCTTAAGGTGCTCAA
CAACATGGAGATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGA
GAAGAATGGTGTGAAGATTACCTTGCCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGG
CCAAGCCACTGTGGCTTCTGGCATACCTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTA
TGCTGAGGCTGTCACTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGGTATTTGAATGGGAAGCTTTTGC
CCGGGGAACCAAAGCTCTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGG
AGACACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAG
TTTGGAGCTCCTGGAAGGTAAAGTCCTTCCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTCCTGCCTTTTA
GTTCCTGTGCACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGT
CAAGATTCAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTC
ACTGCACCCTGGATTTGCATACATTCTTCAAGATCCCATTTGAATTTTTTAGTGACTAAACCATTGTGCATTCTA
GAGTGCATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTT
ATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAAACAAGATGAAATTCCATTTGTAGGTAGTGAGAC
AAAATTGATGATCCATTAAGTAAACAATAAAAGTGTCCATTG

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FIGURE 6231

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPAKIEAF
RASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESSKKYAEAVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNI

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FIGURE 6232

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CTCCCTGCCTCCGCGCTGCAGCCCCTGCCGTAGCCGCCCCTGAGCCCGCCACCACCGCCTCTGAGCAGAAGATGG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTTGGCTTAA
TAAAGCTTGATTTGAAAACAAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGCACGTGGACTGAAGCTGACCTTCGATTCATCC
TTTTCACCTAACACTGGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACCTGGGCTGC
GACATGGTTTTCGACATTGTTGGGCCTTCCATCCGGGGTGCTCTGGTGCTGGGTTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTTGAGACTACAAAATCCCGAGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTAATTTTAAACTATTTTGCAGCATAGCTACCTTC
AGAATTTAGTGTTATCTTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTTAA
AGATGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAAACGCATTTCCAAAAAAGGTTCTTTCAGTG
GTAGACTCGGGGAGAACTTGGTGGCCCCTTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTCCTGAGAATCGAAC
CATGGTTTCCTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCCACCCCAGTTCATCATCATCTCTTTTACACCAAAAGGTCTGCAGGGTGT
GGTCACTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTCAGGACTTATTCC
TTCTTGTGTTGTGTTTTTTTTTGCCCTTGCACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTAGCAATTTAATGGCTÁCATTTTAGAGTCTTCCATTTTTTGTGGAATTAGATCCTCCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACTTGAATAAAATGTTGAAACCTC
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FIGURE 6233

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TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAAGAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTCACATGCAAACATTCAAAATGAATACAAAATTAAAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAATAGTGTTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCCTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTGATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCCTATCGTAATTATAACATTCCCATTCTTTTGTAGATGAAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTCATTGCACATTTCAGTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTCAGTGGACAAGTTCCTTGTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCTTGCCTCAGTGAAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCCAAGATTGGTTT
CCCTTGAGTTTTTGCTAAAACAAATCTTAGTAGTTTTGCCCGTTTAAAACAACTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTATTTCAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAAAATATTAAGCCTGAA
GACTTCTAAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACACTACCTTATT
ACCAAAAGCAAACACCTCTTACTTTAAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACTTGATGCTATGCTTTAAAATAAACTCA
GTACTTTTAGAAACAT
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FIGURE 6234

MVIRVYIASSSGSTAIKKKQQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

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FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCGTCGTAACTTAAAGGGAAACTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAG
TGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTCAGCAGTTCCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCT**TAA**GCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLTARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVSDPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPTAQATEWVGATTDWS

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FIGURE 6237

GATCATGTCTGTAAGCCAGGATTCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCTCCTGTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAAACTGCAGAT
GGAAGCTCCCCACATCATCGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACCAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAACTATATCCACAGAATCAGTCGAGGTGGACAGTTTGGCCGTAAAG
ATGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTCATTTTTTTTCTT
TGAATAAATGTCACTTTTTGAGGCAAAA

6754/6881
FIGURE 6238

TCGTCGGCAAAGCCTGAGTCCTGTCCTATCTCTCTCCTCCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGGTGGCATGGG
GCCTGGGGGCCTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCGTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGACCTGGCTGG
GAAGAACCGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGAT
GGCGAGGACTTCACTCTTGGTGATGCCTTGGACAGCAGGAACTCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGGATGGCAAAGTGGTGTCTGAGACCAACAACACCAAAGTTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGAGTT

6755/6881

FIGURE 6239

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CGGAAGCCGACTCAACAGAGCTATGGCGGGTTTGACTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTCGTGGGGAACATTCCTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAAAGAACAAAGAAGAGCTGAAGAGCCTTGGCACTGGTGCCCCTGTCATTGAGTCACCTTATGGAGAGAC
CATCAGTCCTGAGGATGCCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCTCAACT
GGCTTATGCTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAAATTGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCTCAGCCAGTCCATGGTGCTGGGCCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCTCAGGCCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCCAGCACCAGGGCAAATGCCAGCTGCTGTCACAGGACCTGG
CCCTGGTTCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCCAGAGCAGCTATGCAGCGGGGATCCTTGCCTGCGAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACTTTACTTTCTGTAACTGGAGAGGTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGGTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCCACATGAACTGAGGGGAGGGCCATTACCCGAGCCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCTTGGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCCGTGCAATGGAGGCCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCGAGCGATGGAGGCCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCAG
AGGCCCAGTGCCTGGCCCCAGAGGACCTATACCTAGTGGAATGCAGGGTCCCAGTCCAATTAACATGGGGGCGGT
TGTCCCCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGTGGAAG
CCAGCCTGGCGGCTTTAGTCCCGGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAACTGACTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCTTGATAGGTTTTCAAAAATACCTGGCAAGAAATCTGGAAATTCTATAA
TTTTGTTGAAATATTGAAAAAAGATGACCTGCATCCTAACCCTTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAAATCACTTCATTTTATTGTCTTAGTTTGTATATTTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC
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6756/6881
FIGURE 6240

MAGLTVRDPAVDRSLRSVFVGNIPYEATEEQLKDIFSEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFELMKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQQN
PQAPQAQSLGGMHVNGAPPLMQASMQGGVPAPGQMPAAVTGPGPGSLAPGGGMQAQVGMPGSGPVSMERGQVPMQ
DPRAAMQRGSLPANVPTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHHVPGHESRGPPPHELRGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEVRGMEARGMDTRGPVPGPRGPIPSGMQGPSPINMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

6757/6881
FIGURE 6241

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AAGGGTTGGCTGCGCGTGCGGCGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGACTGTTTCCCCGCCGCAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCCTCAGGTTTGTAAGAGGATTTATTGGTTACGAAGGAAGGTGG
ATTTCAGTGTGTTCTTTGGATGGCAGGCCTTAAGAGAAGAGTCCCACTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCCAAACCAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTCACCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGACCACTAGATGGTTCCTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCCTCTCCTGTCATCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACTTGGAGAGATGGGAACGTTGTCTGTGTGCAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCCTTGT
ATTTCATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTCAGAAGGAGATTGTAAAGGAATTTTTCATCAGAGG
TCCTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGGAACCCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCCTTTTTCCAGATTAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACTC
TGACACCATCCTTCTTGACATCTGCTGTGGAACTGGTGTGATTGGCCTCTCTCTGGCTCAGCATACATCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTCATACTGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCCGTGCCGGACTGCATTACAAGGTGATTCAAGCCATTCGAAACTTCAGGGCCATCCA
CACGCTAGTTTTTGTTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCCTCCAGA
CCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGTCCTGCAGCAAGCTGTACCTGTGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGCTCCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAAACTTTCAGGTTTGGCATATTGCTACATTGCAGACCCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTCGTGGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAAGGTGCGTGCCACCATGCCCGGCTAATTTTTGTATTTTTGGTAGAGACA
GGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCCACCCGCCTCGGCCTCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCGCCGCGGCTGACTTAACCTTAGATTTCAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGGTTTGACCACTCCCCACTCCTGGATCTGGACTGTTTCTTCCTGTTGCTGTCAGCCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTCTGCTTATGGTGTGGACAAATGACCTTTTTTAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTTGCTCAGAGATGCTACAATTTTTAGATATTTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAAACCAGAAACAGTCGAGGTTTTTTAAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAATTCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCCT
TGAAAATGTAGTTTTCCCTGGTGGTGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC
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6758/6881
FIGURE 6242

GCGGAGTTCGTCTCTGCAAGCTTGGTCGCCCTGGG<u>ATG</u>GATTCCTCCTCCTCTTCCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTCATCGAGGTAGAGACTCAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGACTGAACTTTGTTGGGAGAAGTGCATGGACAAGCCTGGGCCAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGAACTGCGTTGAGCGCTTCATTGATACAAGCCAGTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTCTCAGAAAGCCTTTCTGAC<u>TGA</u>TCTCAGCATTACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAATGAACAAAGACCAATTTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTATTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAAACTCTATTTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAACTGCTTCCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTTG
TGTGGAGTCATTTCTGATTTCAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTTG
GTATCCTTATCTAGTGTTTGATTGTCAATGCTGGAGAAAAATATCTGTAAGAGTGTTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCCTATATGATGATTTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAACTTACCCTGTATATCAGGGTACAAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATTT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTTACT
GCATTCTTCTGATCACTGAAATAAAAGCTATATAAGATTCATA

6759/6881
FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLSD

6760/6881
FIGURE 6244

GCGGTTTCTTTCTTTCCGCGCCGATAGCGCTCACGCAAGC<u>ATG</u>GTTAACGTCCCTAAAACCCGCCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCGATTTTCCGGAAAAAGGCTAAAAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGCGTTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAAG
ATGCAAGCATTTTGAACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTC<u>TAA</u>GTGTCATCTTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAAAA

6761/6881
FIGURE 6245

MVNVPKTRRTFCKKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAKTTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIQF

6762/6881
FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTCACAAAAGTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCCTTCTAGACCATCCCAGAAGATCTAT
AAGATTTCATCTGGGAAATCACTAGGAGTTCTTGGAAGGGAAAGAAGGAAGATTGTTGGTTGGAATAAAAACAGG
GTTGAATGAGTTCCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAATGAGAGGGGCCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTTGAACCAGCTCTCCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAGAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCGGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCCTGAAGAATTAAAACCATGGCTTGTTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATTGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAAGAATATTTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCCTGATGCTCCAATGTCCCAGGTTTATG
GAGCACCACACCTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCTTGATGAGAAAAGCC
TTGCATTATTGTTGGGCTATTTGCATGATTTCCTAAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGT
CCTGTATCTGTAAACACTTTTTGTTCTTAGTCTTTTTCTTGTAAAATTGATGTTCTTTAAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTTGTTTTCCGTTCTGTTTTAAACAGAAAATAAAAGGAGTGTAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAAGAAGAAACATTCAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTACACAATTTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTTATGGTGCTTGAAGTAAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCTTTGCTCAAATTGTTGAAGGATGGTGATTTGTTTCATGGTTTTTGTATTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGGAAAAGTTGATATTTTAGGAATTGTATTTCAGATC
TTAAATAAAATTTGTTTCTAAATTTC

6763/6881
FIGURE 6247

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQKQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHPDAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

6764/6881
FIGURE 6248

TTGGTCTAAGACATGGGCTGACAAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTCATCTTTTATACAGGTTATTAAGGTTAGTATTGCTGCATAA·
CAAATTACTCCAAAATTTAATCATTTATATTCAAGAAGAGTTCAGCTGCTAGGTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAG**ATG**CCAGCTGGAGGCCAGGCGCCGCAGCTCACGCCTGTAATCCCAGCGTTTTGGGAGGCCA
GGGGCCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAGGTCACATATCAT
ATGTGGAGCGGGACATAACAACTTCGGAAATTAAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAAGGCTGGGGGTGGGGTCGGGTCGAGTCGA
GGGAAGCTGGCCCGAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGCAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAAAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAAAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACTTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGCCATACATGATATGAATTTCAGCAATG
AGGACATGATAAGAGAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAAGCAAACAGAAATTGGGGG
CGTTTTTGTGGATGCAAAGAAATTTACAGGACCCCTTCTACCCTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCCTTATGTG**TAG**TGTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTCATCTGTTACATGGAAAAAATGTTGATGGTGCATTGTAAAATTAAAAAACACAACTT
GCAGAACCAAAAAAAA

6765/6881
FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGLRVCCSQRSAKPEKEEQPVQNPRRSVKDRKRRGNLDMEKLYSE
NEGMASNQGKMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEPGSETRAAGKRPAEDDVPRKAKRKTNKGLAHYLKEYKEAIHDMNFSNEDMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

6766/6881
FIGURE 6250

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GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCGTGGAAGGAGTCAAACTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAAACTTATA
GTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTTGAACCAATCTACAAG
TCTCTGTCTTTTAATAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGTAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTTGTATTT
TCTATATTCCTAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT
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FIGURE 6251

CAGGATGACAGCTGGAGA**ATG**GAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAAACAGAAAAATCTAAG
CTGTTGTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTCACCAATTGGTGGAACGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAAACCCCTGCTGCTCATTGTGCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATTC
AAAGAGTGTTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTCATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTCAGAAGGAAATTCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGTG**TAG**AATCCTGGGAACTCAACTTGAAGGTCTG

6768/6881
FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPDTDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEGKSIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSMDNTVVIEDIKKMCRVLPLSADTAGDRPPDSLTASNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNILNLDPSVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEFDLEEDFEILSV ·

6769/6881
FIGURE 6253

CTTTCCCTCTCCCAAC<u>ATG</u>GCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAA
GTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

6770/6881
FIGURE 6254

MAASAKKKNKKGKTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFGYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSDKTDTDWRARPATDTFDDYPPRRGDDSFGDKL

6771/6881
FIGURE 6255

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CTTTCCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCAAAGACCCAAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAA
GATGATTCCTCTGCTAGTACCTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG
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6772/6881
FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCACTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAATATCAGTGCAGTGCGTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGTCCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTCAGACCGGTATCGGGATGGGTATCGGGATGGCCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGACCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACTGATATGACAGACGGGATGAT
CGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCAAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCCTCTGCTAGTACCTCCCAGTCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAAACTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACTTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAATAAAGTAGATGGG
ATGAATGTCCCAAAAGGCCAAACTGGGAACTCTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTCAGTTCTGCAAGCAACTATGCTGCTCTCTCTTGATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

6773/6881
FIGURE 6257

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AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCGCCTTACATGGTCCACCACCCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCCTGTACTGTGGTCAAGGGGAACCACTGCATCATGTCCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCAGTTTTGCAGGCAATGGGGGCCCCGACTGTGCTGCCTTCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTCACCTGGTCACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTCAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCTTGTGTAAATATCTGCTGGATTTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGCTGGGCGCTGGATTTTCCTCCTTCCCTTTGG
CTCTCTCCTCAAACTTCATCGCATTCATAGAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTCAGATCACCCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCCTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTC
CCTCTGCCAAAAAGACTTCCTTGGATTTGTAGATGTTGACCCAGAGTCCTCTGTCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGGCTCAGGAAAAACCTAGTCGCTTGTTGCTCTCGTCTGTGACATTTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTCATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTCAGGAGCTTAGCAAATGCCTCTGCCCCTCT
TCCCCTACCCCTGTCCTTCCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCACTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCGTGCTCTGTGCCCCCACCAGTTTGCTCACCTCTTGGGGCATTTTGTAATGTGTTTTCTCT
GTCTTGTAAAACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 6258

MSRYSYQSLLDWLYGGVDPSFAGNGGPDCAAFLSWQQRLLESVVVLTLALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLVTMMHLPFELEIYYIQHVMLYVVPI
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSYMAGPLCKYLLDLLRLPAKKID

6775/6881
FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCGGCGTCCTGGCTGTCCAGCTAGTCCTGGCGCCTCTCTCTGGGGCTTCCACCGCCCG
ACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCCACGCCAGCCTACGTCACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACTCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCCACGGGACCGCTCTCGAGGTCCCCCAAG
CCAAGGCAGAGTCCGACGGGTCCTTCCTTCTGGGTGCCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCCC
CGGGCCCCCTTAGCCGATGCCCAGAGAGTCTCCATTTCTCAAGCTTTGCCACCGAACTCATCGGTCGGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACCGGCGCCAATGGCCACGGAACTCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTCACCC
CGGTTGCTCCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCCGAGCCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCGGCGTCC
TGGCTGTCCAGCTAG

6776/6881
FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGAGQQRRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLAPEPWLPVRERPGVLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRRKGASGHPKHTSPPHTWPTSNSPRL
YPEGCTTSCPRAPSKR

6777/6881
FIGURE 6261

<u>ATG</u>CCCCGCGGCCAACTTTCTTCCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCCGGGAA
GCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTCGGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAACCCAGCTTGGCCCTTAACCCCCGTTTGCTTCCACGGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCCCGAGCCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCGGCGTCCTGGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACCGCCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCCACGCCAGCCTACGTCACGCAGGAAGGGAGCCAGTGGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCC
ACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGGCGGGTGCGCGGCGTCTGAAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGG
GCCGAGGACCCAGCTAGGCCGTCACCCCGGTTGCTCCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCCTGTCCGGGAACGGCCCGGCGTCCTGGCTGTCCAGC<u>TAG</u>

6778/6881
FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRREARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGQ
PSKMPKAPEPRGPCRRPPLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSPRTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGGRDAHELKYPDTPSTSTTTSNTAPTGPLSRSPKPRARACAPPKTSGVPG
RPPGRNEHHGERPASKTTSGTWTQQDRVASLNKAGARRLKACSVADGASRAEDPARPSPRLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAATRLPSRGFLSGNGPASWLSS

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FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCCACGTGCGCCTTCAAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAG**ATG**CCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGCGGCCAGCAGCGGCGGGCACCGGCCCAATGGCCACGGAACTCAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGGTTGCTCCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCCGAGCCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCCACGTGCGCCTTCAAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAA**TGA**GCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACAC
AACAAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCCAGCCCCTTGCCGGTGCTGCCA
CGTGAGAAGGGCCCGGGTGCCGGTCCCGCTATTCCGGAATTGTGGGTTCACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

6780/6881
FIGURE 6264

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGARPAAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

6781/6881
FIGURE 6265

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AGGGAGCGCACGACGTGCGCGCACCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAG
GATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTCGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACTGCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCTATTCCTTTATTGTACATAAA
GTAACTGGTATATGTACACAAGCATATTGCATTTTTTTTAACTAAACAGCCAATGATATGTTTTGATTGACATCA
AGTGGAGATGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCCTTTCTCCATTAGTGGCATGCTCATTCAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGCATACCTTTTTCAATTGGAGAATTTTAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAA
GAATCCTAGATACTTTTCCCTTCAAGTCAAGCGTCTTGTTTAAATAAACTGCTTGTTTAAAATG
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FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDTIDVFQQQTGGVY

6783/6881
FIGURE 6267

GCGCACCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACTGCAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCTATTCCTTTATTGTACATA

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FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAAACTATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGCGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTCGCTTCCCTGAAGAATTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATG
TTCCAGTGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTCATCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCTTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTCATTTGTGACTATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTCAGAAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTTAACTGGATAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAACCTTT
CAGTTCCTGATACCATTGATGAAAGAGCAATCAACAAGAAGAAACTTACACCCTTCATCATTCAGGAAAACTTGA
ACTTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCATGTTGTGAACATTGGTGCAGAAGATTTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAGATCGGTTTGTTCGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACTTTCATTTGGAAAACTCGGGCTGGCAAAAAATTAACAACTTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAAATCGCACCAAAAGGACAAAAGGAAGGTGAACCACGGATAGATA
TTAACATGTCAGGTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAG
GTTGCAGACAGTTTGTTACCCCTGCTGATGTTGTCAGTGGAAACCCCAAACTCAACTTAGCTTTCGTGGCTAACC
TGTTTAATAAATACCCAGCACTAACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAAACTC
GTGAAGAAAGAACCTTCCGTAACTGGATGAACTCTCTTGGTGTCAATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAAGTTCCTGTTGACTGGAGTAAGGTTAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACTGCAACTATGCTGTTGAATTAGGGAAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAAACCCTGACTTTAGCTTTAG
TCTGGCAGCTGATGAGAAGATATACCCTCAATGTCCTGGAAGATCTTGGAGATGGTCAGAAAGCCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTCAGAGTTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAAAATAACCAATCTGAATAAAACAGCCATGCTCCCAGGTGCATGATTCGCA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACTCTTGGCCATTCAAAGGACTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTCAGGCACGCCTGAAATGTGCTCATAGCCAAAACATTTTACTCTCTCCTCCTAGAATGCTGCCCTT
GACATTTCCCATTGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTCTTTTATTCTTAAGATCAGTATCTTTTTACAGTATTCTTT
CTACATGATCCTTTTTTGTACATTTAAGAATATTTTGATTATATTAAACAAGACTGCTGATTTTGCTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAAACATACATCGTAGCTAGAAGAAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACTCTCTCTCTAAATTTAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAGTGTACAATATATTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAAGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

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FIGURE 6270A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGC**ATG**GAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGCGGGGGCGGGGGCGGGGGCGCCGCGCCTACGGAAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTTCTTGGCTCCCTGGAAGGAATACCAGTCCCGACACTAACTATACTCTCTA
CTATTGGCACAGAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTC
CTTTGATCTGACCAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTAAAAACCT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTTCATGGTCCCTGGTGTTCTTCCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGCAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTCCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAAACCAAGGA
GGAAACCGACTCTGTAGTGCTGATAGAAAACCTGAAGAAAGCCTCTCAG**TGA**TGGAGATAATTTATTTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTCTCCATTTGTTATCTGGGAACTTATTAAATGGAAACTGAAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACTTCCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACTCATTTGGGGTGCAAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTCAGGAGTTCCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAAAACTACAAAAATTAACTGGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAAACAAAACAAAACAAAACAAAAAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCCTCTGCTTTGAAAGCCCCAGAAATCAGTGTTGGCCATGATGACAACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAGTCTCTAACAATGTATTTTCTTCACCTCTGCTACTCAAGTAGCATTTA
CTGTGTCTTTGGTTTGTGCTAGGCCCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTTGAGA
CTCCTCAGTTCTTGCCACTTTTTTTTTTAATCTCCACCAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCCTTTTGCATTCTCCCTCCTTCCCTTCCTTGTAGCCTTTTGACTTTCATTGGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTTAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCATATTTTGTAACTTCCATGTGAGGGTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTCACGTAGAACATTGGTATTCGCTTGAGAAAAAAAGAATAGTTGAACCTATTTCTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTTCTCTGCCATAAATGATTAATTAAATAGCTTTTGTGTCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCCTCACACACAGACTCATATTACTGGTAGGAACTTGAGAACTTTATTTCCAAGTTGTTCAAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCCTC
ACTCTCTACAGGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTCTAGAAAGAATATTTGGTTTTCCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTTATAATTCTGGGAAGCAAAACCCATGCCTCCCCCTAGCCATTTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

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FIGURE 6270B

GTGATCTTTTGTTCCCATCCTCTTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTTACTGTTTTAGGTCTAGCCTATGTGGATTTTTTCCTAACATACCTAAGCAA
ACCCAGTGTCAGGATGGTAATTCTTATTCTTTCGTTCAGTTAAGTTTTTCCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAAATAAATATTGTCTTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

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FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHFGDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDDLYVQWENPQNFISRCLFYEVEVNNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPDTLNTVRIRVKTNKLCYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDPGKIFKEMFGDQNDDTLHWKKYDIYEKQTKEETDSVVLIENLKKASQ

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FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAGTGGCGAGTTCCGGATCCCTGCCTAGCGCGGCCCAACCTTTACTCCAGAG
ATC**ATG**GCTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTCGCCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCCTGCTCTACAAGATCGTGCGCGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGACGAGCCGCCCCCTCTGCCCCGCCTCAAGCGGCGCGACTTCACC
CCCGCCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTCGAT
GTGACCAAAGGCCGCAAATTCTACGGGCCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCCAG
CAGGAGACTCTGAGTGACTGGGAGTCTCAGTTCACTTTCAAGTATCATCACGTGGGCAAACTGCTGAAGGAGGGG
GAGGAGCCCACTGTGTACTCAGATGAGGAAGAACCAAAAGATGAGAGTGCCCGGAAAAATGAT**TAA**AGCATTCAG
TGGAAGTATATCTATTTTTGTATTTTGCAAAATCATTTGTAACAGTCCACTCTGTCTTTAAAACATAGTGATTAC
AATATTTAGAAAGTTTTGAGCACTTGCTATAAGTTTTTTAATTAACATCACTAGTGACACTAATAAAATTAACTT
CTTAGAATGCATGATGTGTGTTTGTGTGTCACAAATCCAGAAAGTGAACTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTTCTTCTATCTGTAGTTAGTACAGGATGAATTTAAATGTGTTTTTCCTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAAACAGAGCTCAGC
TGCAAAAAAGCATATTTTCTGTGTTTCTGGACTGCACTGTTGTCCTTGCCCTCACATAGACACTCAGCACCCTC
ACAAACACAGTAGTCTATAGTTAGGATTAAAAATAGGATCTGAACATTCAAAAGAAAGCTTTGGAAAAAAAGAGCT
GGCTGGCCTAAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCCAAGCCCCATGTTCATGGTGGGGCA
ATGGTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACCACGAGGAAACAGTACAGTCGCTAGTCAAGTGGTTT
TTAAAGTAAAGTATATTCATAAGGTAACAGTTATTCTGTTGTTATAAAACTATACCCACTGCAAAAGTAGTAGTC
AAGTGTCTAGGTCTTTGATATTGCTCTTTTGGTTAACACTAAGCTTAAGTAGACTATACAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAACTTGTAATTGTGGTTAAATAGTCATTGTATTTTCTTGTGAACT
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAAATGATGTGCTTTGGTCAGTTAATAAAAATGGTTTTACCCA
CTAAAAAAAAAAAAA

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FIGURE 6273

MAAEDVVATGADPSDLESGGLLHEIFTSPLNLLLLGLCIFLLYKIVRGDQPAASGDSDDDEPPPLPRLKRRDFTP
AELRRFDGVQDPRILMAINGKVFDVTKGRKFYGPEGPYGVFAGRDASRGLATFCLDKEALKDEYDDLSDLTAAQQ
ETLSDWESQFTFKYHHVGKLLKEGEEPTVYSDEEEPKDESARKND

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FIGURE 6274

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CCGCAGCGCCGGAGTCAAAGCCGGTTCCCGGCCCAGTCCCGTCCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCCTTCTGGCGCGGTAACCTGGCCAA
TGTCATCAGATACTTCCCCACCCAGGCTCTTAACTTCGCCTTCAAAGATAAATACAAGCAGATCTTCCTGGGTGG
TGTGGACAAGAGAACCCAGTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTGTGTACCCTCTTGATTTTGCCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATTCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGAC
TTCCTATCCATTTGACACTGTTCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAACTGACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTATGATGAAATCAAGAAGTACACATAAGTTATTTC
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAATATCTAAAAT
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FIGURE 6275

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GCGACCCTCTTCTTGGCGTAGAGTTTTCAGATTGCTCTTGGGAATCATGCCGAAAGTAGTGTCTCGGTCAGTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCGTGTGATTGA
TGCTGCCAAACATGCCCATAAGTTTTGTAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAATGTGCAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACCGTGTC
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAGAAAGC
GAAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCCTATTTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTCCCATTGATTCTCCTACATTCAGTGAGGTCTTTAACTGAGTCCATTTAACTTGCTTTCTTTTTTTTT
TTTTTTTTTTTGAGATAAAGTCTTGCTCTTTCGCCCAGGATGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAAC
CTCCGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACTCGGGAGGTGGAGGTTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAAAA
AAAGTAACCCAAGGGAGGGAGCTACCCTCTAGTCGGGCAGCTGATACTGCTTCCTTGCATGGATACATGGGAGGG
AGACGTTATAGATTAAGAAATGATAGCAAGATAAACAAAATGATTTGTTGGGTATCTTTTACTTTACATTTGTTA
TTTGCAGAGGAGTGTTGTATATATAGATGTTATTTTATGTCACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTAAAAGGTGTTGGGACAGG
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FIGURE 6276

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GAAGAACTGGAACTGGGCTGGCCATAGGGGGAAGCGGCGCGTTAAATCCGCCCCCTCTCCATACCCTACTTTCAA
GGGGTGGGCGGTAGAGGGGAGGTTGGGGTTGGAGCAGCGGCGAGGGGGCCCCTCCCTTGCACCTCCCCCCACCGG
ACTTGGTCGCGCCCGAAGTGTAACACTTTCTCTTTGTCGGAGGAGCTCCTCTGTTTCCTGTGCAGTAGCTCCCGT
TGCGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAACTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCCTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCT
GTTCAACACCAAATTCGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTCATTGCCCCCACGGGTCATTCCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTCGAAGAGTGAGCTAACAAAGTTCAAAATCAAAATCACCAGCGAGCTTGTCAGCAACGGAGTCCAGAT
CTATCAGTTTCCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCCACCTGCCGTTTGCTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCGGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCACTATGAGCTGTATCGCCGCTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCCTTCAGTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTCCTAGGGGAACTCCAGAA
AAAAGAAGAGGAGATGAGACAGATGTTCGTCCAGCGAGTCAAAGAGAAAGAAGCGGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAAGTTTGACCGTCTGAAGAAACTGCACCAGGACGAGAAGAAGAAACTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCGCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTCCTATTTTAACTGACAGCTTTCCTTTGG
GGTGCCAGGCAGCGAGGCCCCCCACCCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTTGAGTTCCGCA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAAGAAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTTGACAAAGCAAGAATGTAGGTTTGCTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCCAGAAATTCACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCCTGGTAATTATTTGCATTACAAACCGGAGGCGCCCTCATTTGCATTTGTGTACAG
ATTAACTAGTTAAGGCTTGAGAAGCTCTGAATAATTCAAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCGGAGAAGGGAAGGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCCTGG
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FIGURE 6277

MAATDIARQVGEGCRTVPLAGHVGFDSLPDQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHT
QPGVQLQSNTYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADAISKSELTKFKIKITSELVSNGVQIYQFPTDDESVAEI
NGTMNAHLPFAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIRVNMEDLREQTHTRHYELYRR
CKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLH
QDEKKKLEDKKKSLDDEVNAFKQRKTAAELLQSQGSQAGGSQTLKRDKEKKNNPWLCTE

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FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCC**ATG**TCTTC
TCACAAGACTTTCAGGATTAAGCGATTCCTGGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTCG
GATGAAAACTGGAAATAAAATCAGGTACAACTCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTA**TAA**GG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTTCGACGTGTTTTCCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTCAGT
AATAAATATGTAAGGCCTTTCTTTTT

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FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIPQWIRMKTGNKIRYNSKRRHWRRTKLGL

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FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCCGGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTCACTAACGGGGGCAAGGAAAAAAGGGTTGCTCATTTTGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCGC
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAGGAAGCATTTTCCTGATTGAT
GAAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TGTAGTGCTTAATAAAAATAAAATG

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FIGURE 6281

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ATGGACGTAGACACACGAGCCTATTTCACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAACTGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTCATTTTTCTCTTCAC
TGTGGCCTAACCGGCATTGTACTAGCAAACTCATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTCGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA
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FIGURE 6294

MEEMKKTAIRLPKGKQKPIKTEWNSRCVLFTYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLPPGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTPPNHWGHPHRYLQHL

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FIGURE 6295A

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GCTGTTTGGAGTGTACCGTCCTCAGTAATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTT
TTAGAGTCCCCTAAAAAGACCATCTGTGATCCGGAGGAGTTTTTAAAGTCCTCGCTGAAAAATGGGGTAGTTCTG
TGCAAACTGATCAACAGACTCATGCCTGGCTCTGTGGAAAAGTTTTGTCTGGATCCCCAAACTGAAGCTGACTGC
ATCAACAACATCAATGACTTCCTGAAAGGATGTGCAACCCTCCAAGTGGAAATATTTGATCCTGATGACCTTTAT
TCAGGGGTCAATTTCTCCAAGGTACTGAGTACTCTTTTAGCTGTCAACAAAGCAACAGAAGATCAGCTATCAGAA
AGACCATGTGGACGTTCCTCTTCTCTTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCTAGC
ACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAATGGAAGTCATCAGTTGATAGTAAAA
GCAAGATTCAACTTTAAGCAGACTAATGAGGATGAACTGTCAGTTTGTAAGGGGGACATCATTTACGTCACACGA
GTTGAAGAAGGAGGCTGGTGGGAAGGCACATTAAATGGGAGAACAGGCTGGTTCCCCAGTAATTATGTCCGTGAA
ATTAAATCCAGTGAGAGACCTCTCTCCCCAAAAGCCGTCAAAGGATTTGAAACTGCTCCACTTACCAAGAATTAT
TATACTGTGGTGTTACAGAACATCCTGGACACTGAAAAGAATATGCTAAAGAACTTCAGTCTCTTCTTGTTACT
TACTTAAGACCCCTGCAGTCCAATAACAATCTGAGTACTGTGGAGGTTACATCTTTACTGGGAAACTTCGAGGAA
GTATGCACATTTCAACAGACACTCTGCCAAGCCTTGGAAGAATGTTCAAAGTTTCCAGAAAACCAGCACAAAGTA
GGAGGTTGTCTACTGAGTCTCATGCCTCATTTTAAATCTATGTATCTGGCTTACTGTGCAAACCATCCTTCAGCT
GTAAATGTGCTCACTCAGCACAGTGATGAGTTGGAACAATTCATGGAAAATCAAGGTGCATCGAGCCCAGGTATC
CTCATTTTAACAACAAACCTCAGCAAACCATTCATGCGACTGGAGAAATATGTTACTCTCTTGCAAGAGTTAGAA
CGGCATATGGAGGATACTCATCCAGATCATCAGGATATTCTGAAAGCAATCGTAGCATTCAAAACTCTCATGGGG
CAATGTCAAGATCTGAGGAAGAGAAAACAGCTGGAGTTACAGATACTGTCCGAACCTATTCAGGCATGGGAAGGA
GAAGATATTAAAAACTTGGGAAATGTGATTTTTATGTCACAAGTAATGGTGCAGTATGGAGCATGTGAGGAAAAA
GAGGAGCGGTACCTTATGTTATTTTCAAATGTCCTGATAATGTTATCTGCAAGTCCTCGGATGAGTGGCTTTATC
TATCAGGGAAAAATACCAATAGCAGGAACGGTGGTGACTAGATTAGATGAAATTGAAGGGAATGACTGCACATTT
GAAATCACTGGTAACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACCAGGACTTCCAGGAATGGTTGGAG
CAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGCAGTTCATTATCCAAAACCTCATCGTCATCATGTAGTGCT
CATTCTTCTTTTAGCTCTACCGGACAGCCCCGAGGACCCTTGGAGCCTCCTCAAATTATAAAACCGTGGAGTTTA
AGTTGTCTACGACCTGCACCTCCACTTAGACCATCAGCAGCACTAGGTTATAAAGAGAGGATGTCTTATATCTTA
AAGGAGTCTAGTAAAAGCCCTAAAACGATGAAGAAATTTCTTCATAAAAGGAAGACTGAGAGAAAACCATCGGAG
GAGGAATATGTGATTAGGAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTTAAAGTGATCGAAGCCTAC
TGCACCAGCGCAAATTTTCAACAAGGCCATGGCTCAAGTACTCGAAAAGATTCCATTCCACAAGTCCTACTCCCT
GAGGAAGAGAAACTCATCATTGAAGAAACCAGAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTTGAT
ACTGTTTACGCCTTGAAGGACGAGGTCAGAGAACTGAAGCAGGAAAATAAAAGAATGAAGCAATGCCTGGAAGAA
GAACTGAAATCAAGAAGGGACCTAGAAAAGCTGGTGCGGAGGCTTTTGAAGCAAACAGATGAGTGTATTCGAGGC
GAGTCCAGTAGCAAGACCTCAATTCTTCCATAACCATCACTGTGCCACTGGGTGGAGTGTGCCTTCAGGGCATCT
TGAAATGTCCCGCTGAATGATTTGACTCAGTTTGCTCACTTCTTTGGCTTTTGTTTTGTGTTTGAGTCTCTCTCT
CTCTCTCCCTCTCTCTTCTCTTTCTCTCCCCGCTGTGTGCATATGTGTGTGCGTGCACGTGCGCGCTTGGGCATT
TGCTGTTGTTTGGTTATTGGTTGGTTGTTCATTTTTTTTTTCAACAGGTGAAAAAGCAGGAAGTGGTGGTAGAGA
TGGCCTCAGAGTCTTTTCCATTCAGTAAGAAAGAGAAAGGGAATGCAGGCCAGTTACTTAAAAGGTCTTCAGATT
GCCTTCAGTTCACAGTGCCTCTGCAACAGCCATTGCCCTCAGGTCACATTCTTTGGGCTGGCTGCCCTTGCAAAG
CAGCTGGCCAAGGCTTATTAAATGTGAACCCAACTTTTCCCCAGGGCTTTCCTGTACCTGCAAGCCTCTTAGTAC
TTAATTTACCGAAGGCAAATCTTCCAGACTATGGCTTGAGTAGGATGAAAGACAAACACATCTGCCCAATGATCC
AGCTGCCCTTCCTTAGACCATCACATGCCTCCCCTCAATCACAGGTTTTAAAATTACTGCCCTATGTTGTCTATA
AGACCAAGAAAACTGTAGTACCCTTATTCCTTTTGTGTCATGTAAATTGTAACTCAGGGGGGCAGAAGCTCTGGT
CACCCACACCAACACCAAATCCATCAGCAAATTCTACTGGACAATCCTCCCTTTTAGTAGCAGAGTTGACCGCCT
TTTCCCATTGCATGATAGGTTTCTTTCCCTCATTCTGCCTAGTGTGTAAGTTTTCTATTTCCCCAGTACTTTTAG
CCAACCTTACCAAGTGGTGTGTAAACTAGTATGTATGTGCTTTGCTTACTTTTTAAAAAAATGTAGTTAGACTGT
GAGGAGTTACTTTATGTACGTTGCATATTCAAACTGTGATGTTTTATCCTTCAAAACAATCTGCATTAAGAAGAT
ATTGTGCCCTACTAGACAGCTTTCATTCACTTTATTACTCTCTCATATATGCTGTGAGAAGTTGTAATATTAATT
GGCCTCTTTGGGTGGGACTCTAAGCAGTATTTGCAGAAATATGCTTCTGGTCCAACTTGTACATCCAGAACAAAA
GGGCCCCTCTAGTAGCTGTGTGCTGGATTATTCAGGACTGATTAACTCAAGTTGCTCATTGAATCACATCATCCA
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FIGURE 6295B

CTTTATCCCAGAAACTAGAACTGTGAGAAACCAGGTTTAGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCACTGGAAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACTTGAAGCCAGGCATGGTGGCCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAAACAAAACTTGAAGTTTGAAACCCCCAGCT
TGCTGAGGAGCCCTTTTTATTTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTTGCAGTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACTGCATCTATAGGAAACATTTTTG
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTCGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCCTGTTGCCCTGTAATTAAACTGCTGCCCGTAGAGGCCTTTCAGTTCCTT
TTCTGTCCTTCCCCTTCTTAACACAAGCTCAAATTTTCTAACTTGTTTTTATTTTGAAGACTTTTAAAATGGACA
TTTTCAATACATAAAAATAAACAGTGCTTTATAAAAA

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FIGURE 6296

MNPEEQIVTWLISLGVLESPKKTICDPEEFLKSSLKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFDPDDLYSGVNFSKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KTVEMTENGSHQLIVKARFNFKQTNEDELSVCKGDIIYVTRVEEGGWWEGTLNGRTGWFPSNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLC
QALEECSKFPENQHKVGGCLLSLMPHFKSMYLAYCANHPSAVNVLTQHSDELEQFMENQGASSPGILILTTNLSK
PFMRLEKYVTLLQELERHMEDTHPDHQDILKAIVAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIPIAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSLSKTSSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPAPPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKRKTERKPSEEEYVIRKSTAALEEDAQILKVIEAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLIIEETRSNGQTIMEEKSLVDTVYALKDEVRELKQENKRMKQCLEEELKSRRDLE
KLVRRLLKQTDECIRGESSSKTSILP

6815/6881
FIGURE 6297

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AAAAAAAAACATGGTTGAAGCAGATCGCCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTCACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAACCATCATTTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCCTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTCGC
AGTAGCAGTGGAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCACGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCCTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCGCCATCTTATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAAGGGGGTACCCTCCTCCACGTGATTCCTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAACTT
TGGACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAAACTATTCTATCATAACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTAAATTCCCTGTTAAGTTCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAAG
TAAAACATGTTTAATTTTATTTGACTTTCGCATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTTGTAACTTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTCAGGGTGTCTTCCAACTGAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACTACAGAATACTAAATAAAAAGTTTGGCCAAAACC
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FIGURE 6298

MVEADRPGKLFIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFESGRRGPPPPPPRSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPRSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYSDRDGYGRDRDYSDHPSGGSYRDSYESYGNSRSAPPTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDSYSSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRGG
GRGGSRSDRGGGRSRY

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FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTTAACTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCCTCGTGCCCCAG
GATCAAGCAGTACTTACCGCTTCCACGGTACTTAGCGTTCCTGCCAATAAAAGAAGCCCAACTCCGGCCGTCGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAACTGTTTATTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAAAAGAGA
GGATTTGCTTTTGTAACTTTTGATGGTCACGATACAGTTGATAAAATTGTTGTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCGTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATTATGGACCCATGAAA
GGGGGCAGTTTTGGTGGAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGGAAGTGGTGGA
TATGGTAGCAGAAGGTTCTAA

6818/6881
FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAGAAACCCCGGCCTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAACTGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTC**ATG**CCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACCAAATCTTACCGAGAGCATTCCCAGTAGTCCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTCATGGAGCTCATTCAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTCAGGGCCTGCCAGACAGTGAGTCCTCTTTCACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGGAGTTCCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCAG
AGATGCTGATGATTGTCATCAAGTACAAAGATTACTTTCCTGTGATACTCAAGAGAGCCCGTGAGTTCATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACTTCTGTGTGTTTGCAAACACAGTAGGCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCGAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTCATCTGGGAAGTGCTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCTCCTCCATATTATGAATTCCTGTGGGGTCCAAGAGCCCATTCAGAAAGCATCAAGAAGAAAGTACTAG
AGTTTTTAGCCAAGCTGAACAACACTGTTCCTAGTTCCTTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTCATGGCCAGTGAAAGCCTCAGTGTCATGT
CCAGCAACGTCTCCTTTTCTGAG**TGA**AGTCTAGGATAGTTTCTTCCCCTTGTGTTTGAACAGGGCAGTTTAGGTT
CTAGGTAGTGGAGGGCCAGGTGGGGCTCGAGGAACGTAGTGTTCTTTGCATTTCTGTCCCATATGGGTGATGTAG
AGATTTACCTGTTTTTCAGTATTTTCTAAATGCTTTTCCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAGAGTAACAGTTTGATATTTTGTTAAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTTT
ACAATGTGCAATAACTCAGCAGTTAAATAGTGGAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCCTTGTCCT
GCTTATTCTTTTGTTCTTGAAAATTATATATACCTGGCTTTGCTTAGCTTGTTGAAGAAAGTAGCAGAAATTAAA
TCTTAATAAAAGAAAAAAAAAAAAAAAAAAAGG

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FIGURE 6301

MPPVPGVPFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSSSLILGGPEEEEVPSGV
IPNLTESIPSSPPQGPPQGPSQSPLSSCCSSFSWSSFSEESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLLKYEAEEPVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVFANTVGLTDEGSDDEGMP
ENSLLIIILSVIFIKGNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHSSPPYYEFL
WGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASESLSVMSSNVSFSE

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FIGURE 6302

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TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTCATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTCAGTGCATTTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCTCCCG
TCACTTTATTTGTAGAAATCTCTCTTTCACATGAGCAGGGGTTCTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTCAGTGGCTCACAAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCGTTAGAAGTCGGATGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCCAGG
CAGGCGGATCACTTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTTGAACTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCCTTCCTCCCCACTCCCATTGCCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCCTCTTTCCTCCCCTGTCCCTAAAATAATCCACGTGTCTTCCTAAAATCTCTCTTTGATCCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCCTTTCCTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCCTTGCCTATCCCTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTCACCCATTCATTCATGACCATTTTTCACTACCAAGCTCCCCCCCTCCC
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGA__ATG__AACATTGCTAAAGAATCTTGTGT
TCGCTTTACTTTAAAAAGGTATTTTTTTCCTAATTATAAAACTGATGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTTGC
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTA__TAA__TTTACTTAACCTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTCAGATTATTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCT
TCCTGCTCTCTTGCTGCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAACTTTGAATTCTTGCCGGGCGCGGT
GCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAATAAAAAACAACAAAAAACAAAAAAACTTAAA
ATTCTTTGCTTGTTAGTGACCTTGATCATGGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTGTG
AATTGCCTTTAAATTTTGGTTATGGGTTTCACCTTTTAAAATAATCAAACATATTTATCTTTTCCTGTGTGATA
GGTTTTTTTCTGTATCTTTTCCTGTTAAACACACAGACCCCTCCCCAATCTGGACATTGAATAAATATTCATTTT
CCTTTGC
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FIGURE 6303

MNIAKESCVRFTLKRYFFPNYKTDVSVTEKLEMQHKYMNILPQNCHIISCLFWGCEFFALFWSYSLSCNLCSFLL
SIMCGYYRFSQRYIAGNIFYCVVL

6822/6881
FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGCAGCCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCCACGTCTCCTTGCTTGGGAGC
CCATCGTCCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTCATTCCTGTGGCGAAAAGCCG
GAGTCGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCGGGAGCCTGTGTGCTCAGCCTTCTTGCGGACGGTAAAGAAGCTAAGTGGAAGAGTGTT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCCAGCCCCTTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCCTGCTGAGCA
GCCAGCGGAACTGTACCATCGCCGTCCACATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAG
AAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCTTTGCTCAGATGAAGGAAGTAGGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTTTGAGGCTTTGT
TCTATGTTTTCCCCTGATTTGTTCTGGTCAAAACTCATCAAATGTGTAACTAGCATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGTCCTTTCAGGTTACTCTCACTCTTCTGAAAGTGTCTGTCAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGGAAATGTGATCAGTAGTGTTGTTTTATTTTGTAGTAATTTTTTTTTTTTTGGTGATTTAGCAAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCCAGGTATTGACTGCAGTGG

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FIGURE 6305

MKFGCLSFRQPYAGFVLNGIKTVETRWRPLLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDVFQVDIPEH
LIPLGHEV

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FIGURE 6306

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GGAGCTGCATGAAAGCCGAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTCTTCTCACCGCGGCCCACGTCTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTCGCGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGGCCGCGGCTGAAAGGTACCAGGGCCCCTGATGCCGGAGCCCGTGTGC
TCGGCCCTCTTGCAGACGGTAAAGAAACCAAGTGGAAGAGTGTTTCCTCCTCTGGCCGTAAAGCAGCTGTCCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCTCTGCTGAGCAGCCAGCGGAACTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCCAGGTGGTTACTGGAGCCCATACCTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAAA
GATGAATTTCCTTGTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG
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FIGURE 6307

MCVTDKTRPPSSSWFPMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKSVSSSGRKAAVPALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSRRPSRLREARGACEDEVWLPLLPAALCWLCLKWNQDCGDALASPAEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

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FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTCGCAGAGAACAGGCCAGCCAGGAGGTCAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCCAGCTCCGGCCCACACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCAAGGAGAGGCACCAGGGCTT
ATGGATGTGCAGATTCCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCCTCTACTCTGATCATGGGAACCCTT
GAGGAGGTGACTGATTCTGGGTCACCAAGTCCTCCCCAGAGTCCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTCGTTTCCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTCATCAAAAATTACAAGAACCACTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTCACCTGCCTGGGCCTCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCC
AAGACCGGCCTCCTGATAATCGTCCTGGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCGGCAGTGATCCTGTGCGCTACGAGTTCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTCCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTT**TGA**GCAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCACTTTCCCTGCTCTG
TTACATGAGGCCCATTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCTGTTCTATTGGGCGATTTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCCTTCTAATGGATGGTGTAATGAACTTCAACATTCATTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTCATTTATACTGGGAAACCCATGTTATTTC
TTGAATTCAGACACTACAAGAGCAGAGGATTAAGGTTTTTTTAGAAATGTGAAACAACATAGCAGTAAAATACAT
GAGATAAAGACATAAAGAAATTAAACAATAGTTAATTCTTGCCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAATGAAATTGAATTAAATATGAATAAATAAGTCCCCCTGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6827/6881
FIGURE 6309

MLLGQKSQRYKAEEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTLEEVTDSGSPSPPQSPEGASSSLTVT
DSTLWSQSDEGSSSNEEEGPSTSPDPAHLESLFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIKNYKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSYVKVLEHVVRVNARV
RISYPSLHEEALGEEKGV

6828/6881
FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCCTCTGGGTGTGATCTCGAGAATTGAAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAAATATTACTTGTAAAGACATGAGAAACCTGAGGTTCGC
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTTAAATGAAGAAAAGTTTAACGTGGATGGATGGACAGTTTACAATCCAGTGGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAACTTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCCTGCTCTTTTGGTGATTCCGTATCGTGCCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCCAGTGCTGTCATGGATTCATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTTGTC
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AAACTCACCATTTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACTTTTCTTCTTAGACATTCATAATATTCATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGAATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTCAGTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTCGAAATACTGGTACAAAAAGAATGGATAAGTTTTGGACATAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAACCACACCGATGCTGACCGTTCTCCTATTTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCCTACAGCTTTTGAATTCAATGAACAATTTTTGATTATAATTTTGGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTTA
TATCCAGTTGCCAGTATGCGTCACTTGGAACTCTGGGTGAATTACTACATTAGATGGAACCCCAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACTCTGCCAAGCTTTCTGATCCCCCAACTTCACCTTCCAGTCCTTCGCAAATGATGCCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCGCATTAGAGCTCGAAATAAAGGCGATAGCTGACTTTC
ATTTGGGGCATTTGTAAAAAGTAGATTAAAATATTTGCCTCCATGTAGAACTTGAACTAACATAATCTTAAACTC
TTGAATATGTGCCTTCTAGAATACATATTACAAGAAACTACAGGGTCCACACGGCAATCAGAAGAAAGGAGCTG
AGATGAGGTTTTGGAAAAACCCTGACACCTTTAAAAAGCAGTTTTTGAAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATACTATATATACAATATATATTTTGTGGGCTTAATTGAAACAACATTATTTTAAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAATTGAGCTCAGCTTCCTAGGCATTACCCAAAAGCAAGGTGTTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCATTATTTGGA
AATTTAGGGGTAGAAAATGTTTTCCCCTAATTTTCCAGAGAAGCCTATTTTTATATTTTTAAAAAACTGACAGGG
CCCAGTTAAATATGATTTGCATTTTTTAAATTTGCCAGTTTTATTTTCTAAATTCTTTCATGAGCTTGCCTAAAA
TTCGGAATGGTTTTCGGGTTGTGGCAAACCCCAAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTTGCTCTAGTCAGTCCAGCTCATCTGCCAAAATGTAGGGCTACCGTCTTGGATG
CATGAGCTATTGCTAGAGCATCATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTTGGCTTCCCCTCCCCACCCCACGCGTGCATAAAAACTGGTTC
TACAAATTTTTACTTGAAGTACCAGGCCGTTTGCTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTGAAATTTT
AAATGCACAGTTCTATTTGCTATCTGAACTAATTCATTTATTAAGTATATTTGTAAAAGCTAAGGCTCGAGTTAA
AACAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATAACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATTATTTTATGTCATAGTTTAATTGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTTGTAAGTATAAGAAATTTTATTAGACATTCTCTTACTTTTTGTAAATGCTGTAAA
TATTTCATAAATTAACAAAGTGTCACTCCATAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTTGTGAAATT
TCATGAAAACTTTTTAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAACTGAAACCT

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FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTCGGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATC**ATG**CCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCGTCGGAAATTGGCAGTACTTCTTTCCTGTGATCTTCAGCAAAGCTTCCG
ATTCCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGACAGGCTTCCTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCCAATATTTCGTGCAGGAAAACTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTTCCTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAGT**GA**GTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGCACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCCTGTT
GGAGTTGTTCAAATGTTCCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAGATAGTTGATTCTTGCCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAACCAGGATTTCCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCCTCTTC

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FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLGDNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGREDSIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGGPRIS
YPLLHEWALREGEE

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FIGURE 6313

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTCACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCCTGTTGGAATTGTTCAAATGTTCCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACTCAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA ·
AATTAAATCTGAATAAATAA

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FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLGDNQVMPKTGLLIIVLAIIAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGEPHIS
YPPLHERALREGEE

6833/6881
FIGURE 6315

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CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTCACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCCTGTTGGAATTGTTCAAATGTTCCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACTCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA
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FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTCGGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATC**ATG**CCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCGTCGGAAATTGGCAGTATTTCTTTCCTGTGATCTTCAGCAAAGCTTCCA
GTTCCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCCAACATTTCGTGCAGGAAAACTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCCTACCCACCCCTGCATG
AGTGGGTTTTGAGAGAGGGGGAAGAG**TGA**GTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCCTGTT
GGAGTTGTTCAAATGTTCCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAACCAGGATTTCCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLGDNQIMPKAGLLIIVLAIIAREGDCAPEEKIWEEL
SVLEVFEGREDSILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALVETSYVKVLHHMVKISGGPHIS
YPPLHEWVLREGEE

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FIGURE 6318

GAGCAGCGCGGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAAC**ATG**GCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTG
ACAAGCCCTCTAACCCCTCTTCCCATGAGGTGGTAGCCTGGATTCGACGGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCGGACATTATGTGTGCACCTTGGTTTGTTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCATCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGCAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGAAAGCAAAAGAGGTAGAATTGGTTTCTGAG**TAG**TGAAGGCCACTTG
AAGCTGGAGGAGAAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTTGCTGAGAGAGTGGAACATA
GGTCCTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCATTTTTTAAATCCCCTCTGTTTAAAAGGTTTGTAAAACAAAAACAAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTTCTGGCCTAGA
GGTCAGTCCTTTGCACTTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCGACTACTTGTTCCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTAAAAAATGAAATTGTTCATTGCTGGGAGAAGAATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTTATGTATTCCTGTTGGGTTTTCTTGTTGATCTCATGCTAGCAGAGCAA
AAATTGTAAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

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FIGURE 6319

MADAEVIILPKKHKKKKERKSLPEEDVAEIQHAEEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRILRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMIEYDPERRLGIFWVSCEAGTY
IRTLCVHLGLLLGVGGQMQELRRVRSGVMSEKDHMVTMHDVLDAQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGVLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESESDETPPAAPQLIKKEKKKSKKDKKAKAGLESGAEPGDGDSDTTKKKKKKKKAKEVELVSE

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FIGURE 6320

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AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGCGAGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGCCGGCCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCCGCCCGCACGAGGG
GTGGTGGCCGAGGCCCCGCCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCCGCCCCC
GCCGATTAAATGGGCCGGCGGGGCTCAGCCCCCGGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCTTCCATCAGTCGGATACACACATATTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCCGAAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTCACAGGCCAACCGCCTCTTCTACCTGGCCTTG
CCCCCGACCGTCTACGAGGCCGTCACCAAGAACATTCACGAGTCCTGCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGCTGAGATTTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACCTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAATGTGGTCCTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAAGGGTACCTGGACGACCCCACGGTGCCCCGCGGGTCCACCACCGCCACTTTTGCAGCCGTCGTCCTC
TATGTGGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGCAGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTCACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCCACAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCCGCCACGGCCACCCTCCTTCCCGCCGCCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCCTGGCCCCGGGCTCTGGCCACCCTGGCCCGCCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCCTTGTCACCAGCAAC
ATCTCGAGCCCCCTGGATGTCCCCTGTCCCACCAACTCTGCACTCCATGGCCACCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC
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6839/6881
FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGGCCTGGCAGGGA
AGGGCCGCCGCCGCCGCCGCGCGTTTGCGAGGCCTGGCGGGGCCGCGGGGCCCAGGAATGGCGTAAGGGGCCCCC
CCAGACTCCGAGACGGCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGCGTGCCCTTCCTTTCCTCCCTCCCAGGT
TCGCGCCCGAGCTCTGCTAGCCACCCGTCCGACAACTTCCGGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCCTCCAGGAAGAGCC**ATG**GTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGCCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTCACACCGTGCCACCGACT
GGGGGCCGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGAGTTTCCTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAACGTGAGTGCTATAACCTGGGGAGGCGGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCATGAGGCCCCGCCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCCAC
TTCTCGGAAAACCCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTCGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTACGCTTTCCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCCTGGCGGCGGGGGGGAGCTACCTCTTCAGCCTCCTTCTTGGAGGGGACGTCACCCTGGCCATCTCC
ATGACTTTCCTCTCTACGGTGGCTGCCACTGGCTTCTTGCCTCTGTCTTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCCTGCTGTTCATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTTCTCCCAGCTGCTGCTGCAGGTCGTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGCCCCTGGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGGCCATGCTGCAGCTATCC
CTCCGCCGCCTTCAAGCTGACTATGCCTCCCAGGCCCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCATTGGCCACTTCATCTACAGCAGCCTGTTCCCAGTTCCC**TGA**GGCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTACTGA
TTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCCAGAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

6840/6881
FIGURE 6322

MVLMQDKGSSQQWPGLGGEGGGTGPLSMLRAALLLISLPWGAQGTASTSLSTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPGQANRTAPGPMLRVTSLDTEVLTIKNVSAITWGGGGGFVVSIHSGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPILYLLLPLIFVNKCSFGCKVELEVLKGLMQSPQP
MLLGLLGQFLVMPLYAFLMAKVFMLPKALALGLIITCSSPGGGGSYLFSLLLGGDVTLAISMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPISKILGTLLFIAIPIAVGVLIKSKLPKFSQLLLQVVKPFSFVLLLGGLFLAYRMGV
FILAGIRLPIVLVGITVPLVGLLVGYCLATCLKLPVAQRRTVSIEVGVQNSLLALAMLQLSLRRLQADYASQAPF
IVALSGTSEMLALVIGHFIYSSLFPVP

6841/6881
FIGURE 6323

CCGCCGCTGCCGCTGCCGCTGTCGCTGTCGCCGCCGCCGCCGCCCGCCGCCGCCGCCGCCGCCGCCGCTGCC
ATGGCTCAATACAAGGGCGCCGCGAGCGAGGCCGGCCGCGCCATGCACCTGATGAAGAAGCGGGAGAAGCAGCGC
GAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAAGAAGTTCTCT
GCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCC
AAGCAGGAGGCTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGATGAAG
CTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCAGCCTGTCCTTCACCCTGGAG
GAGGAAGAAGAGGGAGGCGAGGAGGAAGAGGAGGCGGCCATGTATGAGGAGGAGATGGAAAGGGAAGAGATCACC
ACGAAGAAGAGAAAACTGGGGAAGAACCCAGACGTTGACACAAGCTTCTTGCCTGATCGAGACCGTGAGGAGGAG
GAGAATCGGCTTCGGGAAGAGCTGCGGCAGGAGTGGGAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAG
ATCACCTTCAGCTACTGGGATGGCTCTGGGCACCGGCGGACAGTCAAGATGAGAAAGGGCAACACCATGCAGCAG
TTCCTGCAGAAGGCGCTCGAGATCCTTCGGAAAGACTTCAGTGAGCTGAGGTCCGCAGGGGTGGAGCAGCTCATG
TACATCAAGGAGGACTTGATCATCCCTCACCATCACAGCTTCTACGACTTCATCGTCACCAAGGCACGGGGGAAG
AGTGGACCACTCTTCAACTTTGATGTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAG
TCCCATGCAGGCAAGGTGGTGCTGAGGAGCTGGTACGAGAAGAACAAGCACATCTTTCCCGCCAGCCGCTGGGAA
CCCTACGACCCTGAAAAGAAGTGGGACAAGTACACGATCCGC**TGA**GCATCCAGGAGGCTGCGCGGCCCCGGCTCC
TCAGCTCCCTCAGTGTGCCCCGTGGTGTCACCGGGACTCCAGGCACCCGCTCCCCTGCGACCATGCCAGGCACGC
TGGGAGGAGGACGGCAGCTGCTCGTGTCCTGCCCCTGCCACATCAGTGACTGCTTTATTCTTTTCCAATAAAGAA
GTGCACGTGTCAGAGCTGGAGCGCCTGCATTGTGAG

6842/6881
FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKELQMKLEKLREKERKKEAKRKISSLSFTLEEEEEGGEEEEEAAMYEEEMEREEIT
TKKRKLGKNPDVDTSFLPDRDREEEENRLREELRQEWEAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

6843/6881
FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTCAGCCCCACCTCCTGCTCACAGACCCTGTCCGAGCACCTCATTTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGCAT
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGCCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTCAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCCTCCAGAGCCAGAACTGAGCCCAGTGAGAGCGCACCCTGG
GGCAGCCTGGATTCCTGGGGTGTCCCCGGCAGCCACACACAGCCATGCACTACCCAACTGCACTCCTCTTCCTCA
TCCTGGCCAATGGGGCCCAGGCCTTTCGCATCTGCGCCTTCAATGCCCAGCGGCTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGCTGCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTTGATGGCTCTGGGCCCTACAGCACCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTCACACAAAACACAGGTCC
TGAGTTCCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGGAGCCATTTGTGGCCCAGTTCTCTTTGCCCA
GCAATGTCCTTCCCAGCCTGGTGTTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGCGGGCCAGCACCCACTGCACCTATGCCCGCGTCGTGCTGCACGGGGAGCGCT
GCCGGAGTCTGCTGCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCGAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCCTCAGCTGTGCCCTGCTGCCTGAGCGTCCCCCTACCCCCCCAGGG
CCTGCTGCCTTTTGGGACTTAAACCCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTTTGATTTGGCTCTTGTTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTTGGGGTAGGGGAAGGGAGGGGTTCAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAAAAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAACACCGGGAAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTCAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGGTTTGGAACCATCACCCCAAGGTAAAAAAAAAATAAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

6844/6881
FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTCGCC<u>ATG</u>GGCCGCCGCCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTCAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTTGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCA<u>TGA</u>GGGCTTCCAATGTGCTGCCCCCCTCTTAATACTCACCAATAAATTCTACTTCCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGGAAGGAACTTCCTCTGGGAACCTTTGGGTCATTGCCCTTTCACTTCAGA
AACAGGTTGACAACTCAGCCCTGCTCATGAGGCAGCAAACCCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTTCTCACCCATCTGGTTTGGCCATTCCTCCTTGGTGGGAATCATCCAGGTACTGCTGAGGTCACCTG
CGATTTGCCCCATTTCCTATCTCTAGCAACCTCCTGGGCCCCATGCCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCCTTCACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTTGTAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACTATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCCAGCCTGTGGCTCCCAAAAGGCCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCTTCTAGCGTCCCAGC
CAGTGTTTTTCCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCCTGCAGCCCCTTTCCGGGACACCTGGGTTCACACAGCTTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTCACCGGATTATAATG
AGCCAAAATGTTTCCCGGTGTTTGCTGGTTTCAGGGAAGGAGTTTGATATAGCAGATTAACCACCCTCCTTGTAG
CTATTGGGGCTTAATGGTTTCCTGGTGATTCTTACCAATCCACAATAAACATGGCCCATTGGCATATCTGCAAAA
AAAAAAAAAAAAA

6845/6881
FIGURE 6327

MGRRPARCYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMVSDEYEQLSSEALEAARICANKY
MVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTKLQNKEHVIE
ALRRAKFKFPGRQKIHISKKWGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

6846/6881
FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
.CCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCTCCTCCACCTCTTTTATGTCCTCCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCCTGGTCTTTGTGATCGTCCTCTTCTTCATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGCTTGGGGGGCGCTGGGCCTAGCCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCCCACCAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTTGTCATTTTGTTGACATGC
ATTCCTCCTTTTGTCATCTTGTTGGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTTGT

6847/6881
FIGURE 6329A

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GCGATCCGGGCGCCACCCCGCGGTCATCGGTCACCGGTCGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCCTCCCGCGCGCCTAGGTGCCTGCGACTTTAATTAAAGGGCCGTCCCCTCGCCGAGGCTGCAGCACCGCCC
CCCCGGCTTCTCGCGCCTCAAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTCACGCGCTGGTGCAACGAGCACCTGAAGTGCGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCCTGGACCGCGAGAG
CATCAAACTGGTGTCCATCGACAGCAAGGCCATCGTGGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGCAGCTGCCCATCACCAACTTCAGCCGGGACTGGCA
GAGCGGCCGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCCTGTGTCCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCAGCAGCGGATGACTGGCTGGGCATCCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTCATGACCTACCTGTCCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGCGGCCCAAACTGAACCCGAAGAAAGCCCGTGCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCCGGACACCAGGAGGAGGCAAAAGTGACCGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCCTTCGAGGTGTACGTGGATAAGTCACAGGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTCGAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCCACCATGGAGGGCGTCCACACCGTGCACGTCACGTTTGCCGGCGTGCCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAACCCGAGTGCCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCCAA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTCAC
CGTGAAGGGCCCCAAGGGAGAGGGAGCGCGTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCACGTGGGGTGGTCAGAACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCCTGGGGCCCTGGGCTGGAGGGCGGCGTCGTTGGCAA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGCAGGAGGCTGGCGAGTA
TGCCGTTCACGTGCTGTGCAACAGCGAAGACATCCGCCTCAGCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCCTGGGGAGGCGTCAGCATCCCCAACAGCCCCTTCAGGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAGGTCAAAGTATACGGCCCCGGAGTAGCCAAGACAGGGCTCAAGGCCCACGAGCCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGGACGTCAGCATCGGCATCAAGTGTGCCCCTGGAGTGGTAGGCCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTCACGGTCAAGTACACGCCCCGGGGGGC
TGGCAGCTACACCATTATGGTCCTCTTTGCTGACCAGGCCACGCCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTCGAGCTTGGCAAGCCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTCACCAAGGGGGA
TGCAGTGCGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGGTGCTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCTGGGGGCTGACAACAGTGTGGTGCGCTTCCTGCCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCCTGGCAGCCCCTTCCTCTGGAAGCTGTGGCCCCCACCAAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGAGGCAGTGCGGGCTCCCCCGCCCGCTTCACCATCGCACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCCTGACGGTGGAGGGCCCCTGTGAGGCGCAGCTCGAGTGCTTGGACAATGG
GGATGGCACATGTTCCGTGTCCTACGTGCCCACCGAGCCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC
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FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCCTACACCGTCACCATCAAGTACGGCGGCCAGCCCGTGCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAGTGTGGACGCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTCAGGACCGTGGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCGTGCCCAGCAG
CCCCTTCCAGGTGCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCGTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCACTGTGGAGACCAGGGGAGCTGGCACGGGCGGCCTGGGCCTGGCTGTAGA
GGGCCCCTCCGAGGCCAAGATGTCCTGCATGGATAACAAGGACGGCAGCTGCTCGGTCGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTCACCTATGGTGGCCATCAAGTGCCAGGCAGTCCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGCTCTGGGCCCGGCCTGAGCCCAGGCATGGTTCGTGCCAACCTCCC
TCAGTCCTTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCATTGCAGGTCAAAGTGCAAGGGCCCAAAGGCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCTTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGGGAGGGCCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCCTACGTGCCAGACGTGACAGGTCGCTACACCAT
CCTCATCAAGTACGGTGGTGACGAGATCCCCTTCTCCCCGTACCGCGTGCGTGCCGTGCCCACCGGGGACGCCAG
CAAGTGCACTGTCACAGGTGCTGGCATCGGCCCCACCATTCAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCCAGCCGGGCAAATACGTCATCTGTGTGCGCTT
TGGTGGCGAGCACGTGCCCAACAGCCCCTTCCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCC
TCTACGGTCTCAGCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTCATCCCCTTCACCATCAAGAA
GGGCGAGATCACAGGGGGAGGTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCCACCATCACTGACAACAAAGACGG
CACCGTGACCGTGCGGTATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCTTGCAGTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTCACCGTCAACACCAAGGATGCAGGAGAGGGGGGCCTGTCTCTGGC
CATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACCAGGATGGGACATGCAGCGTGTCCTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCCACCTAAAGGTCGGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGCTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTCATTCGTGCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGAAATTGGGGATGCCAGTCGTGTTCG
GGTCTCTGGTCAGGGCCTTCACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGCCGACCAGCACGTGCC
TGGCAGCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGCAGGCGTCGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACACAGTCAGCGTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCTT
CCAGTTCACCGTGGGGCCCCTAGGGGAAGGGGGAGCCCACAAGGTCCGAGCTGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGCTGGAGGCCTGGCCATTGCTGTCGA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGAGGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCGACAGCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCGCCGCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACCAGCCAGC

6799/6881
FIGURE 6282

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CAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTCCTGCCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTCAGGCCGGCTCCCCCTTCCTGGTCTCC
CTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTTCTACCTGA
CCCTTTTCCTCATCCTGGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTCAGCTGTCTC
CTGCCATCCCTGTATTTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTGCAGCATCTGTGACAACTGTGTGGAGCGCTTCG
ACCATCACTGCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAAACTCCTGGAACTGTTCTAGAAGTCCTCATTTGCTTCTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTCATACTTTCCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCCT
TGCCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCCAGTACTCAAG
AGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTTTGTGTTTAATTAGGGCTATGAGAGATTTCAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAACTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGTT
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6800/6881
FIGURE 6283

LFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHCPWVGNCVGKRNYRYFYLFILSLSLLTIYVFAFNIVYVA
LKSLKIGFLETLKETPGTVLEVLICFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQ
EAAEAEK

6801/6881
FIGURE 6284

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TGCTTTCCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAACTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGACAATGATGGAGAGAGAAAGCATCAAAAGCTTCTGGAAGCAATCAGTTCCCTTGATGGAAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTCAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTCCTTGCAGATCTGCTTGAGCCTGTTAAAACTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAACCGCACAAGTCCTCTCCAAATGGGACCCTGTCGTCCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCCTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCCTCCATAAGAACAAGCAGCCAGTGACAGACCCTTTACTGACCCCTGTGG
AAAAGGCCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCCTACTATGAGGCCAAGGCTCGAAGAGAGAAGAAAATCAAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAGCAGCTGCGGAAGGTTAATCCAGCTGCAGCACTAGAAGAAC
TGGAAAAAATTGAAAAGGCCAGAATGATGGAAAGAATGAGCCTTAAGCACCAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAAGAAC
TGACACAGAAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGGAGGCACAGAAGATGTGGAAGAACTCCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAGTG
ACACCAAAGAGGCTGCAACCCAGGAGGACCCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAAGAAATTTTGTTGAGAGAATTTGAGGAAAGGCGATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGCTGAGCCAGCAGGCAGTCAAGAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTCAGAGGGGA
CTATTCCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTTCAAAATAAGGAGCTTCCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCCACAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTCATCAGAGATT
TCTTGAAAGAGAAGAGGGAAGCTGTGGAGGCGAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGGTGGTGTGGGCCTAAAGCCCAGTGCCAAGAAAAGACGCCGGTTCTCATTAAAGCCCCTGAGGGTCCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTGGCAATTTGAAAGGACCATCCAGACCCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCCAAGGTCGTCACCAAGCCAGGCCATATCATTAACCCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCCTCAAGGTCGGACCTGTCTGTCATACAGAGGAATCCAAAACGAATCA
CCACACGTCACAAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCCTTTGGTCCAGTTTTACTCTGATACAGGGTGGATTCCAAAACTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTTTAATCT
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6802/6881
FIGURE 6285

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AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTCGCCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCCAGGC
AACTTGTTCCAGCGATGGCATGTTCCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCTTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAAGATACAATGAAAGAATTTCAGGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAGGAGAGGAAGTTCCTCAAGACAAGGCGCCAAGTCATGTTCCTTTCCTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGCTGCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCCTCTTTCAAAAGAACTGTGGTTTTCAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAATGGAAAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCTCATATTGAGAATGGTGGTGTGGCTGTCCTCACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAAACTTAATGATGGCTCTCAAATAACCTATGAAAAGTGCTTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACGCTTTTCAGAAAG
ATTGGAGACTTTAGAAGCTTGGAGAAGATTTCACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGATTCAACTCTTCCCCGAG
AAAGGAAATATGGGAAAGATCCTCCCCGAATACCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTT
AAGGTGATGCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAAACTGACCACATAGTGGCAGCTGTGGGCCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCACGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGCCCACAGTTGGTGTTTTTGCAAAAGCA
ACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAACTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCCTCCCAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCATCTTCTACCTCAGGGACAAAGTGGTCGTGGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTCAT
GAAGACTGAAGCCCCACAGTGGAATTGGCAA
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6803/6881
FIGURE 6286

MFRCGGLAAGALKQKLVPLVRTVCVRSPRQRNRLPGNLFQRWHVPLELQMTRQMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAAFAAARSI
RARDPGARVLIVSEDPELPYMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLKDGRKVETDHIVAAVGLEPNVELAKTGGLEIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEAIGLVDSSLPTVGVFAKATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVIFYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHED
LNEVAKLFNIHED

6804/6881
FIGURE 6287

CCCTCCCCTGCCTGCATTCCCGGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCCGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGCG
CTGGAGGAGGAGGAGGGGGGGCCCGGAGTGAGAGGCACCCCCTTCACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACACGCACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTTGGGGCCCCGGTTCGGTCCGGGGGAG**ATG**GCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTCGCATCTTCAAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCGTGGACTTCAGGGAGAAGACCGTGGAAA
TCGAGGGCGAGAAGATCAAGGTTCAGGTGTGGGACACAGCAGGTCAGGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAATGCAATGGGCATGCTGTGCCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACTTAGCCCTGAAATTTGCTGATGCCCACAACATGCTCTTGTTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAAACTGGAGTTCCCACAGGAAGCTA
ACAGTAAAACTTCCTGTCCTTGT**TGA**AACCAAACGATATAAATACAAGATAAATTATCACTGGAGTTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTTCCATACAAATTGATATCAAAATAAAATTTGTAT
AGATTATC

6805/6881
FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIVIGDSNVGKTCLTFRFCGGTFPDKTEATIGVDFRE
KTVEIEGEKIKVQVWDTAGQERFRKSMVEHYYRNVHAVVFVYDVTKMTSFTNLKMWIQECNGHAVPPLVPKVLVG
NKCDLREQIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

6806/6881
FIGURE 6289

GCCCCCACCCTCGACATGCGCTTCCGGCGACGCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGCCCCTCCGGCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATACCGACCGACTCCCGGAGTTCATCGTGCA
GACGAGCTCCTACATGTTCGTGGACGAGAACACGTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACTACATC
ATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTCACCTTCAGCGAGACCCATTTCCTCCCCATCCCCAGAGACCTCTTGTGTTCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTTGCCTAGAA
TCCTGTTTTCTTCTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTCAACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACACTACCTGTACAAAGGTTTTTTCCTTATTTTTAATAAATGTCAGACACTATT

6807/6881
FIGURE 6290

MHIWTLSCTSGASWAPVTYWTDHPQPLLPTHLHSSRLPANYIILPTDLRYHCHRHPPHLTNRLWLLVMWTHLGGI
RAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

6808/6881
FIGURE 6291

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TGAAGGCCCTCCTGGCCGGGCCCCTCCGGCCCGCGGCGCGTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATACCGACCGACTCCCGGAGTTCATCGTGCAGACGAGCTCCTACATGTTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCTCCATGCACATTTGGACGCTGTCCTGCACTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCCTCCCCATCCCCAGAGACCTCTTGTGTTCCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC
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6809/6881
FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTLSCTSGASWAPVTYWTDHPQPLLPTHLHSSRLPANYIILPTDLRYHCHRHPP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

FIGURE 6293

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CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTCACCTGTGTCATTCACTCACAATGGAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCAAAGGCAAACAGAAGCCTATAAAGACGGAATGGAATTCCCGGTGTGTC
CTTTTCACCTACTTCCAAGGGGACATCAGCAGCGTAGTGGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCACAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTCGGCCTGGG
GAGCTGTGGCATTTCTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCGTCCTCAGGAATCTGCCGCCAGGGAGAATGGCAACCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGGCTCAGTTCACTATAAGAAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAAT
GAAACTCTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTTAGTCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAATGAAAGCTGCTCACACCCACTTGCCTCCCCAATCTGTTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCCATCCACACCCTGCTTG
CTCCTGTGTAACAGCTCAGATGATGAATAATAATAAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAAAAA
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6849/6881
FIGURE 6329C

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CTCTTTTGCAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTCACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTCACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTCGGTGACCATTGACGGCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGCCCCTACCACATTGGGGGGCAGCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTCATGGCCCAAGGACCCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCCAGGCAGCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCTCAACCCCGGCCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACTTGGGCAGAGGGAGCCATTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGGTCCTGTACACAACCACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATTC
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6850/6881
FIGURE 6330A

CCGGAAAATGGCCGCCGCCGCCGCCGCGCCGAGCGGAGGAGGAGGAGGAGGCGAGGAGGAGAGACTGCTCCA
TAAAAATACAGACTCACCAGTTCCTGCTTTGATGTGACATGTGACTCCCCAGAATACACCTTGCTTCTGTAGACC
AGCTCCAACAGGATTCCATGGTAGCTGGGATGTTAGGGCTCAGGGAAGAAAAGTCAGAAGACCAGGACCTCCAGG
GCCTCAAGGACAAACCCCTCAAGTTTAAAAAGGTGAAGAAAGATAAGAAAGAAGAGAAAGAGGGCAAGCATGAGC
CCGTGCAGCCATCAGCCCACCACTCTGCTGAGCCCGCAGAGGCAGGCAAAGCAGAGACATCAGAAGGGTCAGGCT
CCGCCCCGGCTGTGCCGGAAGCTTCTGCCTCCCCCAAACAGCGGCGCTCCATCATCCGTGACCGGGGACCCATGT
ATGATGACCCCACCCTGCCTGAAGGCTGGACACGGAAGCTTAAGCAAAGGAAATCTGGCCGCTCTGCTGGGAAGT
ATGATGTGTATTTGATCAATCCCCAGGGAAAAGCCTTTCGCTCTAAAGTGGAGTTGATTGCGTACTTCGAAAAGG
TAGGCGACACATCCCTGGACCCTAATGATTTTGACTTCACGGTAACTGGGAGAGGGAGCCCCTCCCGGCGAGAGC
AGAAACCACCTAAGAAGCCCAAATCTCCCAAAGCTCCAGGAACTGGCAGAGGCCGGGGACGCCCCAAAGGGAGCG
GCACCACGAGACCCAAGGCGGCCACGTCAGAGGGTGTGCAGGTGAAAAGGGTCCTGGAGAAAAGTCCTGGGAAGC
TCCTTGTCAAGATGCCTTTTCAAACTTCGCCAGGGGGCAAGGCTGAGGGGGGTGGGGCCACCACATCCACCCAGG
TCATGGTGATCAAACGCCCCGGCAGGAAGCGAAAAGCTGAGGCCGACCCTCAGGCCATTCCCAAGAAACGGGGCC
GAAAGCCGGGGAGTGTGGTGGCAGCCGCTGCCGCCGAGGCCAAAAAGAAAGCCGTGAAGGAGTCTTCTATCCGAT
CTGTGCAGGAGACCGTACTCCCCATCAAGAAGCGCAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTGG
TGAAGCCCCTGCTGGTGTCCACCCTCGGTGAGAAGAGCGGGAAAGGACTGAAGACCTGTAAGAGCCCTGGGCGGA
AAAGCAAGGAGAGCAGCCCCAAGGGGCGCAGCAGCAGCGCCTCCTCACCCCCCAAGAAGGAGCACCACCACCATC
ACCACCACTCAGAGTCCCCAAAGGCCCCCGTGCCACTGCTCCCACCCCTGCCCCCACCTCCACCTGAGCCCGAGA
GCTCCGAGGACCCCACCAGCCCCCCTGAGCCCCAGGACTTGAGCAGCAGCGTCTGCAAAGAGGAGAAGATGCCCA
GAGGAGGCTCACTGGAGAGCGACGGCTGCCCCAAGGAGCCAGCTAAGACTCAGCCCGCGGTTGCCACCGCCGCCA
CGGCCGCAGAAAAGTACAAACACCGAGGGGAGGGAGAGCGCAAAGACATTGTTTCATCCTCCATGCCAAGGCCAA
ACAGAGAGGAGCCTGTGGACAGCCGGACGCCCGTGACCGAGAGAGTTAGCTGACTTTACACGGAGCGGATTGCAA
AGCAAACCAACAAGAATAAAGGCAGCTGTTGTCTCTTCTCCTTATGGGTAGGGCTCTGACAAAGCTTCCCGATTA
ACTGAAATAAAAAATATTTTTTTTTCTTTCAGTAAACTTAGAGTTTCGTGGCTTCAGGGTGGGAGTAGTTGGAGC
ATTGGGGATGTTTTTCTTACCGACAAGCACAGTCAGGTTGAAGACCTAACCAGGGCCAGAAGTAGCTTTGCACTT
TTCTAAACTAGGCTCCTTCAACAAGGCTTGCTGCAGATACTACTGACCAGACAAGCTGTTGACCAGGCACCTCCC
CTCCCGCCCAAACCTTTCCCCCATGTGGTCGTTAGAGACAGAGCGACAGAGCAGTTGAGAGGACACTCCCGTTTT
CGGTGCCATCAGTGCCCCGTCTACAGCTCCCCCAGCTCCCCCCACCTCCCCCACTCCCAACCACGTTGGGACAGG
GAGGTGTGAGGCAGGAGAGACAGTTGGATTCTTTAGAGAAGATGGATATGACCAGTGGCTATGGCCTGTGCGATC
CCACCCGTGGTGGCTCAAGTCTGGCCCCACACCAGCCCCAATCCAAAACTGGCAAGGACGCTTCACAGGACAGGA
AAGTGGCACCTGTCTGCTCCAGCTCTGGCATGGCTAGGAGGGGGGAGTCCCTTGAACTACTGGGTGTAGACTGGC
CTGAACCACAGGAGAGGATGGCCCAGGGTGAGGTGGCATGGTCCATTCTCAAGGGACGTCCTCCAACGGGTGGCG
CTAGAGGCCATGGAGGCAGTAGGACAAGGTGCAGGCAGGCTGGCCTGGGGTCAGGCCGGGCAGAGCACAGCGGGG
TGAGAGGGATTCCTAATCACTCAGAGCAGTCTGTGACTTAGTGGACAGGGGAGGGGGCAAAGGGGGAGGAGAAGA
AAATGTTCTTCCAGTTACTTTCCAATTCTCCTTTAGGGACAGCTTAGAATTATTTGCACTATTGAGTCTTCATGT
TCCCACTTCAAAACAAACAGATGCTCTGAGAGCAAACTGGCTTGAATTGGTGACATTTAGTCCCTCAAGCCACCA
GATGTGACAGTGTTGAGAACTACCTGGATTTGTATATATACCTGCGCTTGTTTTAAAGTGGGCTCAGCACATAGG
GTTCCCACGAAGCTCCGAAACTCTAAGTGTTTGCTGCAATTTTATAAGGACTTCCTGATTGGTTTCTCTTCTCCC
CTTCCATTTCTGCCTTTTGTTCATTTCATCCTTTCACTTCTTTCCCTTCCTCCGTCCTCCTCCTTCCTAGTTCAT
CCCTTCTCTTCCAGGCAGCCGCGGTGCCCAACCACACTTGTCGGCTCCAGTCCCCAGAACTCTGCCTGCCCTTTG
TCCTCCTGCTGCCAGTACCAGCCCCACCCTGTTTTGAGCCCTGAGGAGGCCTTGGGCTCTGCTGAGTCCGACCTG
GCCTGTCTGTGAAGAGCAAGAGAGCAGCAAGGTCTTGCTCTCCTAGGTAGCCCCCTCTTCCCTGGTAAGAAAAAG
CAAAAGGCATTTCCCACCCTGAACAACGAGCCTTTTCACCCTTCTACTCTAGAGAAGTGGACTGGAGGAGCTGGG
CCCGATTTGGTAGTTGAGGAAAGCACAGAGGCCTCCTGTGGCCTGCCAGTCATCGAGTGGCCCAACAGGGGCTCC
ATGCCAGCCGACCTTGACCTCACTCAGAAGTCCAGAGTCTAGCGTAGTGCAGCAGGGCAGTAGCGGTACCAATGC
AGAACTCCCAAGACCCGAGCTGGGACCAGTACCTGGGTCCCCAGCCCTTCCTCTGCTCCCCCTTTTCCCTCGGAG
TTCTTCTTGAATGGCAATGTTTTGCTTTTGCTCGATGCAGACAGGGGGCCAGAACACCACACATTTCACTGTCTG
TCTGGTCCATAGCTGTGGTGTAGGGGCTTAGAGGCATGGGCTTGCTGTGGGTTTTTAATTGATCAGTTTTCATGT

6851/6881
FIGURE 6330B

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GGGATCCCATCTTTTTAACCTCTGTTCAGGAAGTCCTTATCTAGCTGCATATCTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTCTTATATCTAAATCTGTCCAACTGAGAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAACTGTCAAGTGTGT
GTTGTCTTGTGTATTTCAGTTATTGTCCCTGGCTTCCTTACTATGGTGTAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGCCCCGTTCTGTTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCTTATGCTGTAAAAGCAAGTCCTGCAACCAAACTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTCAGAAGAGAGGGTGAGTCCTCCAGAACTCTTCCTCCAAGGACAGAAGGCTCCTGCCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAGTTGGGTTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGCTGCTTCCCCGTCACCTGGGCGTCATCTGGTCCTGGTAAGAGGAGTGCGTGGCCCACCAGGCCCCCC
TGTCACCCATGACAGTTCATTCAGGGCCGATGGGGCAGTCGTGGTTGGGAACACAGCATTTCAAGCGTCACTTTA
TTTCATTCGGGCCCCACCTGCAGCTCCCTCAAAGAGGCAGTTGCCCAGCCTCTTTCCCTTCCAGTTTATTCCAGA
GCTGCCAGTGGGGCCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCCCCTTTCTTCCTCATTCCCTCGTCTTTCC
CAAAGGCATCACGAGTCAGTCGCCTTTCAGCAGGCAGCCTTGGCGGTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCCTGCCTTGGGGTCAGGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCCAGTTTTGGGGTGTGACCTCAATTTCAATTTTGTCTGTACTTGAACATTATGAAGATG
GGGGCCTCTTTCAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCCACCCTTGTTCCAGTTGTTAGTTACTACCTCCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCCAGGTCTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTCATAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAAGACACAGGGGACACCCAGAAACGCCACATCCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGCTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCGGGTGCAGACAATCTTCTG
TTGGGTGGCATCATTCCAGGCCCGAAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATTGTCACCTGC
TTCTCTGCCCAGCTTTTCATTGCTGTGACAGTGATGGCGAAAGAGGGTAATAACCAGACACAAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCCTGCGCGGGACCATCTGGAATTGGTTTAGCCCAAGTGGAGCCTGACA
GCCAGAACTCTGTGTCCCCCGTCTAACCACAGCTCCTTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTTAGCCTGTGTCATTGCC
CCAAATGGATTCCTGTTTCAAGTTCACACCTGCAGATTCTAGGACCTGTGTCCTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTCCTACCATGGAGTGGGTCTGGAGGACCTGCCCGGTGGGGGGGCAGAGCCCTGCTCCCTCCGGGTC
TTCCTACTCTTCTCTCTGCTCTGACGGGATTTGTTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTTATAAATCGTTAGGATACTGCCTCCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTCGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTCACCAGTGACCTGGAAGGCCCAGCACCACCCTCCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCCAGCGCTGACGTGTCAGGAAAACACCCAGGGAACTAGGAAGGCAC
TTCTGCCTGAGGGGCAGCCTGCCTTGCCCACTCCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCCTCCCCAAGGCCCCCTGCCTGCCCTGTCAGGAGGCAGAAGGAAGCAGGTGTGAGGGCAGTGCAAG
GAGGGAGCACAACCCCCAGCTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCCAGACCCTGGAGGAAATC
CTACCTTTGAATTCAAGAACATTTGGGGAATTTGGAAATCTCTTTGCCCCCAAACCCCCATTCTGTCCTACCTTT
AATCAGGTCCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTTGGCTCCTGCCCACTGATAGCC
CCTCTCCCCGCAGTGTTTGTGTGTCAAGTGGCAAAGCTGTTCTTCCTGGTGACCCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTTGTCTCCTCTATCCTGGGCTTTTGTTTTGCTTTTTAGTTTTGCTTTTAGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTTATATATATATCTGTATATTG
CACAATTATAAACTCATTTGCTTGTGGCTCCACACACACAAAAAAAGACCTGTTAAAATTATACCTGTTGCTTA
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6852/6881
FIGURE 6330C

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ATTACAATATTTCTGATAACCATAGCATAGGACAAGGGAAAATAAAAAAAGAAAAAAAAGAAAAAAAAACGACAA
ATCTGTCTGCTGGTCACTTCTTCTGTCCAAGCAGATTCGTGGTCTTTTCCTCGCTTCTTTCAAGGGCTTTCCTGT
GCCAGGTGAAGGAGGCTCCAGGCAGCACCCAGGTTTTGCACTCTTGTTTCTCCCGTGCTTGTGAAAGAGGTCCCA
AGGTTCTGGGTGCAGGAGCGCTCCCTTGACCTGCTGAAGTCCGGAACGTAGTCGGCACAGCCTGGTCGCCTTCCA
CCTCTGGGAGCTGGAGTCCACTGGGGTGGCCTGACTCCCCCAGTCCCCTTCCCGTGACCTGGTCAGGGTGAGCCC
ATGTGGAGTCAGCCTCGCAGGCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCACTCTGTCGAGCCT
GGGGGCTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCAGGTAGAACGCCAGGGACC
CCAGAATCATGTGCGTCAGTCCAAGGGGTCCCCTCCAGGAGTAGTGAAGACTCCAGAAATGTCCCTTTCTTCTCC
CCCATCCTACGAGTAATTGCATTTGCTTTTGTAATTCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACA
GTTCTTTTTGATCATCTTTTTTTAATAATTAGAAACACCAAAAAAATCCAGAAACTTGTTCTTCCAAAGCAGAGA
GCATTATAATCACCAGGGCCAAAAGCTTCCCTCCCTGCTGTCATTGCTTCTTCTGAGGCCTGAATCCAAAAGAAA
AACAGCCATAGGCCCTTTCAGTGGCCGGGGCTACCCGTGAGCCCTTCGGAGGACCAGGGCTGGGGCAGCCTCTGGG
CCCACATCCGGGGCCAGCTCCGGCGTGTGTTCAGTGTTAGCAGTGGGTCATGATGCTCTTTCCCACCCAGCCTGG
GATAGGGGCAGAGGAGGCGAGGAGGCCGTTGCCGCTGATGTTTGGCCGTGAACAGGTGGGTGTCTGCGTGCGTCC
ACGTGCGTGTTTCTGACTGACATGAAATCGACGCCCGAGTTAGCCTCACCCGGTGACCTCTAGCCCTGCCCGGA
TGGAGCGGGGCCCACCCGGTTCAGTGTTTCTGGGGAGCTGGACAGTGGAGTGCAAAAGGCTTGCAGAACTTGAAG
CCTGCTCCTTCCCTTGCTACCACGGCCTCCTTTCCGTTTGATTTGTCACTGCTTCAATCAATAACAGCCGCTCCA
GAGTCAGTAGTCAATGAATATATGACCAAATATCACCAGGACTGTTACTCAATGTGTGCCGAGCCCTTGCCCATG
CTGGGCTCCCGTGTATCTGGACACTGTAACGTGTGCTGTGTTTGCTCCCCTTCCCCTTCCTTCTTTGCCCTTTAC
TTGTCTTTCTGGGGTTTTTCTGTTTGGGTTTGGTTTGGTTTTTATTTCTCCTTTTGTGTTCCAAACATGAGGTTC
TCTCTACTGGTCCTCTTAACTGTGGTGTTGAGGCTTATATTTGTGTAATTTTTGGTGGGTGAAAGGAATTTTGCT
AAGTAAATCTCTTCTGTGTTTGAACTGAAGTCTGTATTGTAACTATGTTTAAAGTAATTGTTCCAGAGACAAATA
TTTCTAGACACTTTTTCTTTACAAACAAAAGCATTCGGAGGGAGGGGGATGGTGACTGAGATGAGAGGGGAGAGC
TGAACAGATGACCCCTGCCCAGATCAGCCAGAAGCCACCCAAAGCAGTGGAGCCCAGGAGTCCCACTCCAAGCCA
GCAAGCCGAATAGCTGATGTGTTGCCACTTTCCAAGTCACTGCAAAACCAGGTTTTGTTCCGCCCAGTGGATTCT
TGTTTTGCTTCCCCTCCCCCCGAGATTATTACCACCATCCCGTGCTTTTAAGGAAAGGCAAGATTGATGTTTCCT
TGAGGGGAGCCAGGAGGGGATGTGTGTGTGCAGAGCTGAAGAGCTGGGGAGAATGGGGCTGGGCCCACCCAAGCA
GGAGGCTGGGACGCTCTGCTGTGGGCACAGGTCAGGCTAATGTTGGCAGATGCAGCTCTTCCTGGACAGGCCAGG
TGGTGGGCATTCTCTCTCCAAGGTGTGCCCCGTGGGCATTACTGTTTAAGACACTTCCGTCACATCCCACCCCAT
CCTCCAGGGCTCAACACTGTGACATCTCTATTCCCCACCCTCCCCTTCCCAGGGCAATAAAATGACCATGGAGGG
GGCTTGCACTCTCTTGGCTGTCACCCGATCGCCAGCAAAACTTAGATGTGAGAAAACCCCTTCCCATTCCATGGC
GAAAACATCTCCTTAGAAAAGCCATTACCCTCATTAGGCATGGTTTTGGGCTCCCAAAACACCTGACAGCCCCTC
CCTCCTCTGAGAGGCGGAGAGTGCTGACTGTAGTGACCATTGCATGCCGGGTGCAGCATCTGGAAGAGCTAGGCA
GGGTGTCTGCCCCCTCCTGAGTTGAAGTCATGCTCCCCTGTGCCAGCCCAGAGGCCGAGAGCTATGGACAGCATT
GCCAGTAACACAGGCCACCCTGTGCAGAAGGGAGCTGGÇTCCAGCCTGGAAACCTGTCTGAGGTTGGGAGAGGTG
CACTTGGGGCACAGGGAGAGGCCGGGACACACTTAGCTGGAGATGTCTCTAAAAGCCCTGTATCGTATTCACCTT
CAGTTTTTGTGTTTTGGGACAATTACTTTAGAAAATAAGTAGGTCGTTTTAAAAACAAAAATTATTGATTGCTTT
TTTGTAGTGTTCAGAAAAAAGGTTCTTTGTGTATAGCCAAATGACTGAAAGCACTGATATATTTAAAAACAAAAG
GCAATTTATTAAGGAAATTTGTACCATTTCAGTAAACCTGTCTGAATGTACCTGTATACGTTTCAAAAACACCCC
CCCCCCACTGAATCCCTGTAACCTATTTATTATATAAAGAGTTTGCCTTATAAATTT
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6853/6881
FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGSGSAPAVP
EASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQKPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHSES
PKAPVPLLPPLPPPPPEPESSEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHRGEGERKDIVSSSMPRPNREEPVDSRTPVTERVS

6854/6881
FIGURE 6332

CGCGGACCCGGCCGGCCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCCGGCAGGTCCCGGCCCGGCGGCGGC
AGCCATGGCCGGGGGGCCGGGCCCGGGGGGAGCCCGCAGCCCCCGGCGCCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCCTGTGGCCCTGGAT
CAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTCAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCTTCTTCTACCAAGCCAGGCCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCCTCTCCGTTTTG
CTGGCCCCTCTGTGAGATTTCCCGGGGCACCCACAACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTCACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTCAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCAGGCCCGGGCCCTGCCCACCTGAGCTGGGCCTGGGCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGGCATTTGGAGGCCGCCAGCTGCATCCCCCCTTCCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCCACAGTGGGGCTGCTCCATGGCAGCCCCTGGCAGCGCCATCAGGAGCCAGTGCCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCCAGGATCCCGGCCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCGTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCGTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTCAGAGCTGATGTGTTCACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCCTCAGCACTCTGCCGGCAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTCAGTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTCAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCCTCTTGCGTGTCCAAAAGTAGCCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTCAGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAAAAAAAAAAA

6855/6881
FIGURE 6333

MAGGPGPGEPAAPGAQHFLYEVPPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFPGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLETLAGQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAPSGASAQAAEQLQRGPNQPVESDESLGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGDTAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMVQKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

6856/6881
FIGURE 6334A

GCGCGGTGCCGCCGGGAAAG**ATG**GTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGCACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTCAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGCAGGGGCAGCCATTGGTCCTGGAGTGCATCGCCGAGGGCT
TTCCCACGCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTCACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCGTACTATGTCACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCGCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTCACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCTATGCCAATGGGACCCTGGGCATTCGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGCAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGCAGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCCTGGAGTCCTGCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTC
CAGGGAACCAGACCTCTACCACCCTCAAGCTGTCGCCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCCAGGTTCAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACCAGTGTCATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTCACCTTCAGCACCCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTCACCGGCTACGTGCTCTCCTACCACCCCCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAAACTACAGTGTCGTCTCCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTCGTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

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FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTCAGT
TCAACGAGGATGGTTCGTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAA**TAG**TGGAGTCCAGGACAGGAGATGCTGTGCCCCT
GGCCTTGGGATCCAGGCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCTTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTTGGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCCAGCCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCACTGCCCACTGGCCGGC

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FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGPMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDSDKYFIEDGRLVIHSLDYSDQGNYSCVASTELDVV
ESRAQLLVVGSPGPVPRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQGKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNTSLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVSWVPKEGQCNFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLESDNEEKAFGSSQPSLNGDIK
PLGSDDSLADYGGSVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6336A

GCGCGGTGCCGCCGGGAAAGATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGCACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTCAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGCAGGGGCAGCCATTGGTCCTGGAGTGCATCGCCGAGGGCT
TTCCCACGCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTCACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCGTACTATGTCACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCGCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTCACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGGAGCGCCTGTGCCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCTATGCCAATGGGACCCTGGGCATTCGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGCAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGCAGCCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCCTGGAGTCCTGCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTC
CAGGGAACCAGACCTCTACCACCCTCAAGCTGTCGCCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCCAGGTTCAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACCAGTGTCATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTCACCTTCAGCACCCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTCACCGGCTACGTGCTCTCCTACCACCCCCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAAACTACAGTGTCGTCTCCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTCGTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGGG

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FIGURE 6336B

ACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTCAGTTCAACGAGGATG
GTTCGTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGCCACTT
CCCCCATCAACCCTGCCGTGGCCCTAGAA**TAG**TGGAGTCCAGGACAGGAGATGCTGTGCCCCTGGCCTTGGGATC
CAGGCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTTGGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCAACCGGGATGGGA
GCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCACTCCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCCAGCCCACCCCATGGCCGGCTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

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FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGPMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDSDKYFIEDGRLVIHSLDYSDQGNYSCVASTELDVV
ESRAQLLVVGSPGPVPRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQGKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNTSLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVSWVPKEGQCNFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6338

TCGTGTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCG<u>ATG</u>GCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCACTTCTGACGCTGTCATTTCCACTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAAAACAATTCCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCC<u>TGA</u>GGGCGGCACCCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

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FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETVFIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFFDEESYSLLRKAQRNNEDISIIPPLFTVSVDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

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FIGURE 6340

GGGCGGGGGTCGCGGTCCCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGCGTGCGCAGTACCGGGTCCGCGCCTGTCCCCGAAACTTCGCACCCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTCGGGACGTGCGGAGGCTCTCACTTTCCGTC**ATG**GCGCTGAAGGTAGCGACCGTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCCACGAGGTCCCCTCG
AGGAACATCTTTTCAGAACAAACAATTCCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCTTCAGGCACGCATGTGTACCAGTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTCGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCCTCCAGTGCTGC
AGGGAGGTGGCAGCCCGCTACCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGATGTCATGGTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTCGGGGGCCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCCTGGCATCCATGGACAATGAGAATATG
CACACTCCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTCATCCGCCACATCCGCGTCATC
AACGGCCGGGCCGTGGAGGCC**TAG**GCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCCACTCC
AGCACCCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRHTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNIETNHNLPPSHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIITKAKSLRIAEYAFKLAQESGRKKVTAVHKANIM
KLGDGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVYAVFETATRNTGKSIANKNIANPTATLLASCMMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTTSEA
IQDVIRHIRVINGRAVEA

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FIGURE 6342A

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GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGGAGGAGGAGGAGGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCCTCCACTTGGGCTGCCCGAAGAGGCCGCGACCCTGGAGGGCCCTGAGCCCACCGCACCAGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCCGGTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCACAAAGTCTACCCCTTGGTGCGCCAGTGCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCGCCGGGGAGCCCACGCAGGAGGCCTCCGGGGTCGCGGCGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCCTGTGCCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCCTTGGTGAGCCGCACCTTCCTGTCGGTGTATGTGGCCCGCCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAACTGGCCCTGTCGTTCCGCAGCCGTCTGGTGGCCCACGCCTACC
GCCTCTACTTCTCCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACGTGGTGGCCTTTGCGGCCTCTGTGGCCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCCTACACCCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTCACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGAAA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTCGTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTCAGCGCTGTCACTTCAAGAGGCCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTCACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCACAGGCCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCCACGTACGGTGGTGTGCTCTACAAGCCCCCACCCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAGGTGATCTACCCGGACTCAGTGGAGGACATGCAAAGGAAGGGCTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTCGTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTTGGGAGG
CTATGTGTGACTGGAAGGACGTCCTGTCGGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAAATACCACACACACTTGCTAC
AGTTCGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCGCCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCTGCCCCGCCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCCTGCATGCCTGGCCCCTCCTCCTAGAAAACCCTTCCCGCCCTCGGGAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCCTCTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGCCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCCTCCTCGTCAGTCTCTCAAAGACCCCATGGTCCATCCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCCACA
AGAGCCCCAAAGATCCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCCGC
CCCCTCGGCCCCTCACCACCTCTTTCTACAGCCTAATTTATTGGATTCCCTATTCGTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCCACCGGTGCCAAA
CCCAGCCCCTGCGGCCGTCACCCCGCCAGCCTACACTGCCAGCCGCCACCGGGGCACACGGGCCTCTGCTTGCCA
GCCAGGAGTGCGGACACCATGTTCCCAGCTCAGTGCCAAAGAGGGGTCACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCCTGCCCGAGAGAGACCCCACCGCCACCGTGTGCCTTTCCCGGGCCCTCAGCCCTCGGGCCGGGCACCACCCC
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6867/6881
FIGURE 6342B

CAGTCCCCCCAGTAAA

6868/6881
FIGURE 6343

MPVLSRPRPWRGNTLKRTAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA
IRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLRNPDQSLTEDVVAFAASVAHLYSNLTKPLLDVAVT
SYTLLRAARSRGAGTAWPSAIAGLVVFLTANVLRAFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSESDAEAVKKAALEKKEE
ELVSERTEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTI
GRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSSLFRILGGLWP
TYGGVLYKPPPQRMFYIPQRPYMSVGSLRDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHTHLLQFDG
EGGWKFEKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGGLQGAST

6869/6881
FIGURE 6344

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TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTCGGTTGCTGCGGCGGGGCCTGCACGT
TGACTGTGGGAAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTCCTTGCTGCTGTCCTTCCTGCTTAGCGACGCCTGGTGACTCTCATTTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAACTAGAGAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCCTCCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCCTGAGAGCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTCAGAATGCGTTTGCTGTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAGCCCCTTTTTGTTTTGCCCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTCATGGTGG
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6870/6881
FIGURE 6345

MSLQWTAVATFLYAEVFVVLLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNLQNNPGAMEHFHMKLFRAQRNLYIAGFSLLLSFLLRRLVTLISQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAAVDGGKLDVGNAEVKLEEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAKLQAAVDGPMDKKEE

6871/6881
FIGURE 6346

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GCTTCTGCGCGCCGGGGCCGCCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCGGAGGGCAGCCGGCGCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTTGCACCATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCTATGACCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACTCCGGGACAGCATCGTGCAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCGCC
GAGGTCGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTCAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC
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6872/6881
FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNRYFNPSGEPLE
LDSRFWELRDSIVQCELLMLRVLRFQVSFQHPHKYLLHYLVSLQNWLNRHSWQRTPVAVTAWALLRDSYHGALCL
RFQAQHIAVAVLYLALQVYGVEVPAEVEAEKPWWQVFNDDLTKPIIDNIVSDLIQIYTMDTEIP

6873/6881
FIGURE 6348

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TCTCTCCACAAACTGCCCAGGAGTGAGTAGCTGCTTTCGGTCCGCCGGACACACCGGACAGATAGACGTGCGGAC
GGCCCACCACCCCAGCCCGCCAACTAGTCAGCCTGCGCCTGGCGCCTCCCCTCTCCAGGTCCATCCGCCATGTGG
CCCCTGTGGCGCCTCGTGTCTCTGCTGGCCCTGAGCCAGGCCCTGCCCTTTGAGCAGAGAGGCTTCTGGGACTTC
ACCCTGGACGATGGGCCATTCATGATGAACGATGAGGAAGCTTCGGGCGCTGACACCTCGGGCGTCCTGGACCCG
GACTCTGTCACACCCACCTACAGCGCCATGTGTCCTTTCGGCTGCCACTGCCACCTGCGGGTGGTTCAGTGCTCC
GACCTGGGTCTGAAGTCTGTGCCCAAAGAGATCTCCCCTGACACCACGCTGCTGGACCTGCAGAACAACGACATC
TCCGAGCTCCGCAAGGATGACTTCAAGGGTCTCCAGCACCTCTACGCCCTCGTCCTGGTGAACAACAAGATCTCC
AAGATCCATGAGAAGGCCTTCAGCCCACTGCGGAAGCTGCAGAAGCTCTACATCTCCAAGAACCACCTGGTGGAG
ATCCCGCCCAACCTACCCAGCTCCCTGGTGGAGCTCCGCATCCACGACAACCGCATCCGCAAGGTGCCCAAGGGA
GTGTTCAGTGGGCTCCGGAACATGAACTGCATCGAGATGGGCGGGAACCCACTGGAGAACAGTGGCTTTGAACCT
GGAGCCTTCGATGGCCTGAAGCTCAACTACCTGCGCATCTCAGAGGCCAAGCTGACTGGCATCCCCAAAGACCTC
CCTGAGACCCTGAATGAACTCCACCTAGACCACAACAAAATCCAGGCCATCGAACTGGAGGACCTGCTTCGCTAC
TCCAAGCTGTACAGGCTGGGCCTAGGCCACAACCAGATCAGGATGATCGAGAACGGGAGCCTGAGCTTCCTGCCC
ACCCTCCGGGAGCTCCACTTGGACAACAACAAGTTGGCCAGGGTGCCCTCAGGGCTCCCAGACCTCAAGCTCCTC
CAGGTGGTCTATCTGCACTCCAACAACATCACCAAAGTGGGTGTCAACGACTTCTGTCCCATGGGCTTCGGGGTG
AAGCGGGCCTACTACAACGGCATCAGCCTCTTCAACAACCCCGTGCCCTACTGGGAGGTGCAGCCGGCCACTTTC
CGCTGCGTCACTGACCGCCTGGCCATCCAGTTTGGCAACTACAAAAAGTAGAGGCAGCTGCAGCCACCGCGGGGC
CTCAGTGGGGGTCTCTGGGGAACACAGCCAGACATCCTGATGGGGAGGCAGAGCCAGGAAGCTAAGCCAGGGCCC
AGCTGCGTCCAACCCAGCCCCCCACCTCGGGTCCCTGACCCCAGCTCGATGCCCCATCACCGCCTCTCCCTGGCT
CCCAAGGGGTGCAGGTGGGCGCAAGGCCCGGCCCCCATCACATGTTCCCTTGGCCTCAGAGCTGCCCCTGCTCTCC
CTCCACAGCCACCCAGAGGCACCCCATGAAGCTTTTTTCTCGTTCACTCCCAAACCCAAGTGTCCAAGTCTCCAG
TCCTAGGAGAACAGTCCCTGGGTCAGCAGCCAGGAGGCGGTCCATAAGAATGGGGACAGTGGGCTCTGCCAGGGC
TGCCGCACCTGTCCAGACACACATGTTCTGTTCCTCCTCCTCATGCATTTCCAGCCTTTCAACCCTCCCCGACTC
TGCGGCTCCCCTCAGCCCCCTTGCAAGTTCATGGCCTGTCCCTCCCAGACCCCTGCTCCACTGGCCCTTCGACCA
GTCCTCCCTTCTGTTCTCTCTTTCCCCGTCCTTCCTCTCTCTCTCTCTCTTTCTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTTGTGCTTCCTCAGACCTTTCTCGCTTCTGAGCTTGGTGGC
CTGTTCCCTCCATCTCTCCGAACCTGGCTTCGCCTGTCCCTTTCACTCCACACCCTCTGGCCTTCTGCCTTGAGC
TGGGACTGCTTTCTGTCTGTCCGGCCTGCACCCAGCCCCTGCCCACAAAACCCCAGGGACAGCGGTCTCCCCAGC
CTGCCCTGCTCAGGCCTTGCCCCCAAACCTGTACTGTCCCGGAGGAGGTTGGGAGGTGGAGGCCCAGCATCCCGC
GCAGATGACACCATCAACCGCCAGAGTCCCAGACACCGGTTTTCCTAGAAGCCCCTCACCCCCACTGGCCCACTG
GTGGCTAGGTCTCCCCTTATCCTTCTGGTCCAGCGCAAGGAGGGGCTGCTTCTGAGGTCGGTGGCTGTCTTTCCA
TTAAAGAAACACCGTGCAACGTG
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6874/6881
FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCTTAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCTTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAGCCCAAGTGTTTTGTGT
GTATTTTGAGGAGTGGGTTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTCTTTTCAGCAGAACAAGGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTCAGCGTACTCTTTTAGAGAAATAGAAG
ATTGTCGGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCCTGAGAGCAGAGATGGAGGCCTTCTGTTCAC

6875/6881
FIGURE 6350

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CAGAGTTTCGCCATGGCCCGGGGCCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAAA
ATTGATGGCAAGGTTCGAGTGGATGTCACATACCCTGCTGGATTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTCACCGCATCACAGTGGAAGAGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACCTCGGTCGTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCTTTTGATGTGGTGCATGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTTGTCATTGGCAATGGCAATAAACCTTGGATTTCCCTGCCCAGGGGAAAGGGCATTCGACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT
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6876/6881
FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCTCCTGTCATGCCTGTGTCAGGGGCACCAATATGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCACTGTCTCCGCCATGCATGGAGATATGGACCAAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACTATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCCTGCCGCCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCATTTTTTTTCTTTGA
ATAAATGTCACTTTTTGAGGCCAAAA

6877/6881
FIGURE 6352

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ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTTCTTGGGCAGGGCTCTTTCCTGTT
GTGTGTTCCTCCAGGGCCTGTCCTGTACCGAGCTCTGTCTGTTCCAGCCTTCATCCTTCCTGGCTGTTGCTTTTC
CTCTTAAGGGGCCTTAGAACTCTTGCTCTTCCTGGGCTGTGGGGGAATGAGTGTTCTTGCCATTTGCCAGCCTAAT
GCGCATGGTTTCTGCCCCTGATAACAGGAGTGAGTGAGCCCCTCAGACCTGCACTCTGGGTGTCTCCTGCTTTCA
AAGGTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTTCCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAGGGGCCTCCCAAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAACTAATAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCCAAGGTTATAAGGCCTTGTCTTTCTCTTTGGAATCATAAAGTGGAACAGAGTCCCCAGAACTCG
TGTGGCCATTTCCGCCAGCATCACTCCCCGGTGCCTGTGGGGTCCCGGTGTACCTAATGGGAGAACGATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAAGCCCCACCCTAAGGGTTAGCC
CTTGGCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGCAAGGACCCTTTCCACCCTCCCTTGGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCCTAACAGGCTTGTCCAAGTGCTTGGTGTGGGACCCAAGACCAAAGCCCAGGATGGCTTGGTGGGAGTG
TCCCTGCTGCATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCTGCCTGCCCACCTGCAAC
TCCCCCACAGCAATGCCATTCCCACTTGCCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTCATGTA
GACCAGAGCCAGCCTAGTCATTATTTGCTGTCGGGTTTCCAGTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTTGGAGGGCAAGACAGGGAGGAGGCCGCTTCATCCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCTCCCACTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCAGTTCCTTTAAGGTGCCTCTTAA
GGGACACACTGTGTCTCTCTGATTGGGCTTCTAAATCAAAAGCCTGATGTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCTT
CTGCTTCCCAAAGATTTTAAGCATTTTGTAAATGTATAAACTCACCTCTGGCAACAGTGGCCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTTCCCTGGGAAATGGATGCTATTCTATTCTGCTGCCCCTACCTGTTCCTGAGGCT
TCATTTAGAAAGAAAATACCCTCAGAAGGCTGTCTGGCACCCAGTGTCCTAGCCAGGCCAAATATATGAGAAAGG
TAAGTCCATTTTCCCCTTCAGGTCCTCAGTGGATGACTTAACCACTGCTGTCCCTTGGTCCCTTTTTCCTAAACA
GGGGTTTAGTTCTGTCTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTCAGCCAGGAAGAGGAGGCC
AGAGGTCGGGCCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCCTGGAGTGGACCTTCCTCTTTGGGCCT
CGTCAGCTTTTTTGCTTATCATATTCCATTTTGTGCCACTTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTCATGGTTTGATAAATTTGTTG
CATTCAAAAACTTGTAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTTGGATTATTTATATTACTTACAATT
AATTAATAAAGTGGGTTTAAAAAACCT
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6878/6881
FIGURE 6353

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AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTCAGGCTTC
CCGTAGACTGGAAGAATCGGCTCAAAACCGCTTGCCTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCGGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCGCG
GCCGCAGTTCCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGGCGGGGCGGCCACAATTTCGCGCCAAACTTGACCGCGCGTTCTGCTGTAA
CGAGCGGGCTCGGAGGTCCTCCCGCTGCTGTCATGGTTGGTTCGCTAAACTGCATCGTCGCTGTGTCCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTC
TTTCCAGAAGTCTAGATGATGCCTTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTTGGAGAAATATA
AACTTCTGCCAGA
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6879/6881
FIGURE 6354

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TAGAGCAGACAAGCCCGCCCCGCCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGTATATCATTTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAAATAACTTATCTTTCATTGTGTGCTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCAGTGAACTCCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTATTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCTCTGCCTCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTTAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA
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6880/6881
FIGURE 6355A

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CACAACCGTGACAGACTGCCATTCCTGAGTCTCTTCTGGCCATGGGCCCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCCGGGCGCGGCGCGCCGCGCACCGCTCATTCACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCCTGGCCCGGGCTGCAGTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCCGCGGGGCTCGACGCAGCCTCACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGCCGCGGCCCTCATCGCCTGGGCAGCCCAGCGTTTTCCTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCCTGCATGGCCTGGAGCGTTTTCCTGACGTGGAGGCGCAGCGGCGCCGCTTCCTTCAAGCTG
GCTGGACCGCCTGCGGTGCCGTGGACATGAATGAATTCTATCACTGCTTTCTTCCCGCAGAAGAACGCCGGCGGG
TGGAAAATATTGAACCCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCCATTATTTCATTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCCACACCCTAGTGTTTCCATCCTCAGAGGCATTTCCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCT
CTGTCTTCTTGAGCCCAGACGTTATTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCCTGTCAGAATCAGGAATATTTGTTTGTGTATGGGGGTCGAAGCGTGGTGGAACCTGTACTAAGTGACTGGC
ATTTCCTCCATGTAGGGACAATGGCTTGGGTCAGGATCCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCTGCACTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGGATTCCTCTGGGAGTCAGTAGACATCCAGCCTCCCATTACCCCAAGGT
ACTCCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGGATCTGGATTCATTCCTCCTCATTTC
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAATGTTACACAACCATACTAGTATCCTTCTTCCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCCTTTGGTACCTACTTCAACCCCCATACAGTCACATTAGACCTTTCTTCCTTAAGTGCTGGGCAGT
AAGGACTGGACTAATATTCAGGACCCACTAAAGTAGACAATAAAGTTTTCCACAAATAGGATGACCCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCCATCCTTTTTTTCCCTTAGCACTATTCAGTGCAAAAAGTGAAAAAGGTTG
GTAAAATAGGTAAAATACCTAGAAACAATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTTCTAATCTAAGTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAAACAAT
TTCCCAATCCCAGGCCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCCGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTCACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAAACATTGTCCTGTTTGTTGCAACAGAAAAC
TCGGATAGTTTTAACAACAGGAAACACTTGTAGGACTTCCTTTACCAACATACTTTTTAAATGTTTTGCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACTTTTGATGCCTCAATTCATTTTGCACGGGGTATA
ATAATGTTTTGTTCCAGATATACTCTCCACCTTTCACTGTTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTCCCAATTCTTCCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTCTTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTCAG
TAATTGTTCCTTTACTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAACTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCTACTCAGCCCCTTATAGT
TAGCATCCCATTAAACTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTCATCCTTAAAATTTGAGCCTTAATTTGTCATCTAAATTATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT
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FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAGGTTGTTGTCCAACTTCAGCTTTCCTGATACTTTGTAAGAGCCATTTC
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACTGGCAGGGAATATGATCAGCAGGAGAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCCAGCTTTCAGGAGCAGATAAAAGCAGAACACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAAACTCCGTCTCTCCCCAAAAAAAAAAAAAAAAA